UNCLASSIFIED

AD 274 196

Reproduced
by the

ARMED SERVICES TECHNICAL INFORMATION AGENCY
ARLINGTON HALL STATION
ARLINGTON 12, VIRGINIA

UNCLASSIFIED

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

274196

N-62-3-1 NOX

REPORT NO. RR-TR-61-23

COPY NO. A 123

AOMC CLIMATOLOGICAL RINGBOOK
PART XIX
EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE

VIENNA, AUSTRIA

2 November 1961

CATALOGED BY ASTIA
AS AD NO.

U.S. ARMY ORDNANCE MISSILE COMMAND

REDSTONE ARSENAL, ALABAMA

AOMC FORM 1227, 1 JAN 62 REPLACES ABMA FORM 485, WHICH IS OBSOLETE

2 November 1961 Report No. RR-TR-61-23

ABMA CLIMATOLOGICAL RINGBOOK PART XIX EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE

VIENNA, AUSTRIA

By
Werner H. Alfuth
Armstead P. Alsobrook

GEOPHYSICS BRANCH
RESEARCH LABORATORY
RESEARCH AND DEVELOPMENT OPERATIONS
ARMY ORDNANCE MISSILE COMMAND

ABSTRACT

This publication presents climatological parameters of barometric pressure, air temperature and air density in relation to the ARDC Model Atmosphere 1959 at 1 km altitude intervals for the location Vienna, Austria. The frequency distributions have been established for the twelve monthly and the annual reference periods with values of cumulative percentage frequency corresponding to the mean and plus and minus one, two and three sigma levels of normal distribution. The statistical information is based on the observational period March 1954 - February 1959.

TABLE OF CONTENTS

	Page
Abstract	ii
Table of Contents	iii
List of Tables	iv
List of Illustrations	v
Symbols, Terms and Abbreviations	vi
I. INTRODUCTION	1
II. PROCESSING OF DATA	2
A. Raw Data	2
B. Treatment of Individual Ascents	2
C. Statistical Processing	2
D. Form of Presentation	3
III. RELIABILITY AND REPRESENTATIVENESS OF DATA	4
A. Errors of Observation	4
B. Procedural Errors	4
C. Mistakes	5
D. Statistical Representativeness and Confidence	5
References	7
Previous Parts of AOMC Climatological Ringbook	8
Illustrations	10
Tables	49
Approval Page	132
Distribution	133

LIST OF TABLES

Table I - Parameters of Station

Table II - Barometric Pressure, Air Temperature and Air Density as Represented by the ARDC Model Atmosphere 1959

Table III - Number of Ascents

Table IV - Frequency Distributions of Barometric Pressure (Percent Deviations from ARDC Model Atmosphere 1959) at Primary Altitude Levels

1. January
2. February
3. March
4. April
5. May
6. June
7. July
8. August
9. September
10. October
11. November
12. December
13. Annual

Table V - Frequency Distributions of Air Temperature (Absolute Deviations from ARDC Model Atmosphere 1959) at Primary Altitude Levels

1. January
2. February
3. March
4. April
5. May
6. June
7. July
8. August
9. September
10. October
11. November
12. December
13. Annual

Table VI - Frequency Distributions of Air Density (Percent Deviations from ARDC Model Atmosphere 1959) at Primary Altitude Levels

1. January
2. February
3. March
4. April
5. May
6. June
7. July
8. August
9. September
10. October
11. November
12. December
13. Annual

LIST OF ILLUSTRATIONS

Figure I. Percent Deviations of Pressure from ARDC Model Atmosphere 1959 at Primary Probability Levels as Functions of Altitude

1. January
2. February
3. March
4. April
5. May
6. June
7. July
8. August
9. September
10. October
11. November
12. December
13. Annual

Figure II. Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 at Primary Probability Levels as Functions of Altitude

1. January
2. February
3. March
4. April
5. May
6. June
7. July
8. August
9. September
10. October
11. November
12. December
13. Annual

Figure III. Percent Deviations of Air Density from ARDC Model Atmosphere 1959 at Primary Probability Levels as Functions of Altitude

1. January
2. February
3. March
4. April
5. May
6. June
7. July
8. August
9. September
10. October
11. November
12. December
13. Annual

SYMBOLS, TERMS AND ABBREVIATIONS

C - Compressibility factor of moist air

$f_w(p, T)$ - Function of pressure and temperature to account for interactive forces between dry air and water vapor

p - Barometric pressure

T - Absolute thermodynamic temperature

$\bar{x}$ - Mean of normal distribution

ρ - Air density

σ - Standard deviation of normal distribution

Parameters of station: A set of data comprising the geographic coordinates (latitude, longitude, elevation), sea level acceleration of gravity and the equivalent radius of earth of a particular station.

Primary altitude levels: A set of altitude levels including the surface and the levels at integer kilometer increments above MSL.

Primary probability levels: The following values of cumulative percentage frequency: 0.135°/₀, 2.28°/₀, 15.9°/₀, 50°/₀, 84.1°/₀, 99.72°/₀, 99.865°/₀.

Sigma levels: In a frequency distribution, values corresponding to the mean plus or minus integer multiples of the standard deviation. Referred to as plus one sigma level, minus one sigma level etc.

Significant level: A level at which the lapse rate of temperature or relative humidity changes such that a departure from linearity results which is at least 2°C in the troposphere and at least 5°C in the stratosphere or at least 30°/₀ in the case of relative humidity.

Thermodynamic atmospheric quantities: An overall term for barometric pressure, air temperature and air density.

ABMA - Army Ballistic Missile Agency

ARDC - Air Research and Development Command

CPF - Cumulative percentage frequency

MSFC - Marshall Space Flight Center

MSL - Mean sea level

I. INTRODUCTION

The investigation and evaluation of large quantities of atmospheric data is necessitated by the establishment of reliable missile design criteria and atmospheric inputs for firing tables. This report represents the nineteenth part of the ABMA Climatological Ringbook, presenting statistical information on barometric pressure, air temperature and air density for the location Vienna, Austria.

The atmospheric quantities are given in relation to the ARDC Model Atmosphere 1959 (Ref. 7) at the primary altitude levels, since this standard atmosphere has been employed with all standard trajectory calculations of free flight rockets and guided missiles. Percent deviations from the standard were chosen for pressure and density while temperature is given in the form of absolute departures from the model. The frequency distributions were established for the twelve calendar months and the year as reference periods. The data are presented both in tabular and in graphic form.

Table I shows the parameters of station. Pressure, temperature and air density as represented by the ARDC Model Atmosphere 1959 (Ref. 7) are given in Table II at 1 km altitude intervals. The quantities are presented both in physical and in technical units. All units are given in the metric system.

The relevant calculations were carried out on an IBM 7090 computer in the Computation Division of the George C. Marshall Space Flight Center, National Aeronautics and Space Administration, Huntsville, Alabama. Several programmers worked on the problem. The function of a technical liaison representative between Geophysics Branch, Research Laboratory, ABMA, and Computation Division, MSFC, was performed by Mr. A. P. Alsobrook. The publication of this report was facilitated by the efforts of Messrs. A. P. Alsobrook and R. F. Tankersley, and Miss B. Lay who took care of the typing and assembling of the master copies.

II. PROCESSING OF DATA

A. Raw Data

The values of barometric pressure, air temperature and relative humidity at the significant levels of each individual radiosonde ascent were used as input for a computer program to determine pressure, temperature and air density at constant altitude levels. The original observations were obtained by means of the AN/AMT-4 radiosonde during the period from 1 March 1954 to 28 February 1959. The raw data were procured from the Free University of Berlin (Institut für Meteorologie und Geophysik der Freien Universität Berlin), Berlin - Dahlem, Germany. Significant level data had not been key-punched previously.

B. Treatment of Individual Ascents

The raw data were processed on an electronic computer according to detailed instructions (explained in Ref. 2). Pressure, temperature and air density were determined at 1 km altitude intervals for each individual ascent. Furthermore, percent deviations of pressure and air density and absolute deviations of temperature from the ARDC Model Atmosphere 1959 (Ref. 7) were determined at each primary altitude level. Positive deviations mean larger actual quantities than the corresponding ARDC quantities.

Pressure (mb and kp/m^2), temperature (°C and °K) and air density (kg/m^3 and $kp\ sec^2/m^4$) together with the departures from ARDC have been tabulated at the primary altitude levels for every individual ascent. These data can be furnished by Geophysics Branch, Research Laboratory, ABMA, upon request.

C. Statistical Processing

After the determination of the thermodynamic atmospheric quantities at the primary altitude levels for every individual ascent, the statistical processing was performed. Since atmospheric quantities seldom follow a normal (Gaussian) distribution, the different quantities have been determined at the primary probability levels. These levels of cumulative percentage frequency correspond to the mean and the plus and minus one, two and three sigma levels of a normal distribution. In analytical writing, in a Gaussian distribution the abscissae correspond to CPF values as follows:

Abscissa	CPF (°/₀)
$\bar{x} - 3\sigma$	0.135
$\bar{x} - 2\sigma$	2.28
$\bar{x} - \sigma$	15.9

$\bar{x}$ -	50
$\bar{x} + \sigma$	84.1
$\bar{x} + 2\sigma$	97.72
$\bar{x} + 3\sigma$	99.865

($\bar{x}$ = mean of the normal distribution)

(σ = standard deviation of the normal distribution)

No regrouping of the data was made. The width of the classes was set by the round-off procedures prescribed for the individual values. The statistical parameters were determined to the same accuracy as the individual values. When the CPF of the minimum class exceeded 0.135°/₀, the next smaller class was assigned a CPF of 0.01°/₀. Thus a "minus three sigma value" was obtained smaller than the minimum.

D. Form of Presentation

The statistical parameters of pressure, temperature and air density are presented in tabular and graphical form. The frequency distributions of pressure, temperature and air density in relation to the ARDC Model Atmosphere 1959 (Ref. 7) are presented in Table IV (1 ... 13), Table V (1 ... 13), and Table VI (1 ... 13), respectively. The number of observations is shown for each altitude level. In addition, the same frequency distributions are presented graphically to yield quick and perspicuous information on the climatic conditions in the free atmosphere at the location considered (Fig. I (1 ... 13), Fig. II (1 ... 13), Fig. III (1 ... 13)). The two extreme profiles (CPF = 0.135°/₀ and 99.865°/₀) have been drawn from point to point. Some smoothing has been done with the other profiles.

III. RELIABILITY AND REPRESENTATIVENESS OF DATA

A. Errors of Observation

An intricate discussion of errors to be discriminated in upper air climatology has been given in an earlier report (Ref. 1).

The usual shortcomings of the AN/AMT-4 radiosonde are inherent to the presented thermodynamic upper air data. The individual values are subject to instrumental errors whose magnitudes vary from ascent to ascent. Statements about errors of the individual and statistical data of pressure, temperature and air density at constant altitude levels caused by observational errors adherent to the originally measured quantities cannot be made at this time. The presented median values can be considered more or less free of random observational errors while the values at the edges of the distributions may be distorted by random errors of observation.

At the higher levels a remarkable portion of the observed pressure and density variation may be spurious due to the large random error of the pressure capsule measurements in those altitude regions. Only nighttime ascents have been used for establishing this climatological information. Thus, radiational errors have presumably been eliminated to a large extent.

B. Procedural Errors

Procedural errors which can be inferred by simplifying assumptions, round-offs and too broad class intervals do not adhere to the presented thermodynamic upper air data. The class intervals have been chosen small enough such that every distribution consists of no less than 15 classes. The computational accuracy was chosen such that the placement of an individual value of a derived quantity into a certain interval is not influenced by the calculations. The numerical integration of the hydrostatic equation provided for an objective evaluation of the radiosonde ascents, preventing systematic errors of the derived quantities which might be caused by the "personal equation" of the evaluator in the case of a graphic evaluation of the ascents.

Before integrating the hydrostatic equation, the US standard pressure levels were interspersed between the significant levels, in order to keep the thicknesses of layers relatively small.

In the case of "motor-boating" relative humidity, statistical values had already been inserted by the contractor. If the relative humidity was missing, the simultaneous temperature reading not being less than -40°C, a mean value was inserted for the particular pressure level, month and station.

Interactive forces between like and unlike molecules were taken into account by introducing virial and interaction coefficients. In order to determine the correct mixing ratio, a function f_w (p, T) was introduced (Ref. 3), and the compressibility factor C was utilized to compensate for deviations from perfect gas behaviour when air density was computed.

The saturation pressure of liquid water was calculated according to the Goff-Gratch formulation (Ref. 5) under consideration of the new thermodynamic temperature scale adopted by the Dixième Conférence Générale des Poids et Mesures in October 1954 (Ref. 4).

The computed geopotentials of the significant and standard levels were converted to (geometric) altitude according to Lambert's formulation (Ref. 8).

Because of the decrease of pressure and air density with altitude these quantities were computed to a greater accuracy at the higher altitude levels than at the lower altitude levels. The interpolated temperature was rounded off to 0.1°C.

C. Mistakes

In order to free the raw data from inherent obvious mistakes, a comprehensive program was implemented to check the data for meteorological consistency and to supplement missing data by interpolated values (Ref. 6). After this procedure, the data were key-punched, and the punching was verified by a different operator. The punched raw data were thus free of mistakes to a very large extent. Unfortunately, the computer program was apparently not completely checked out, since the minima given on the machine listed frequency distributions did not always agree with the minima selected during another phase of the data processing program. The thereby caused "erratic points" were eliminated by means of a semi-subjective procedure.

D. Statistical Representativeness and Confidence

Observations taken with a radiosonde system usually produce a series of profiles of different vertical extension. The presented data have been made serially complete up to the 100 mb level (ca. 16 km). Above that level such a supplementation was almost impossible. Thus, there is no decreasing number of observations up to 16 km height.

At the higher levels, the statistical significance and confidence are diminished because of smaller sample sizes. The data at those levels might even be biased as the ceiling of radiosonde ascents could be correlated with the synoptic situation. Another bias may have been introduced by the trend that has been recognized in the average ceiling of radiosonde ascents during the period of observation. Stratospheric levels were reached more often in recent years than in earlier years.

Since the presented climatological parameters are based on a comparatively short period of observations, they should be accepted with some reservations, especially at levels above 16 km.

Any statistical evaluation was omitted when less than 30 observations were available.

Table III shows the number of ascents for each calendar month of the observational period.

REFERENCES

1. ALFUTH, W.H. - 1961:
   Reliability and Representativeness of Air Density Data --- Army Ballistic Missile Agency, Redstone Arsenal, Alabama, Report No. RR-TR-61-5, 16 October 1961.

2. ALFUTH, W.H. and O.E. SMITH - 1959:
   Treatment and Statistical Evaluation of Thermodynamic Atmospheric Quantities in Climatology --- Army Ballistic Missile Agency, Redstone Arsenal, Alabama, Report No. DA-TM-106-59, 18 December 1959.

3. GOFF, J.A. - 1949:
   Final Report of the Working Subcommittee of the International Joint Committee on Psychrometric Data --- Transactions of the American Society of Mechanical Engineers, Vol. 71, pp. 903 - 913.

4. GOFF, J.A. - 1957:
   Saturation Pressure of Water on the New Kelvin Temperature Scale --- Paper presented at the Semi-Annual Meeting of the American Society of Heating and Air-Conditioning Engineers, Murray Bay, Quebec, Canada, June 1957. Published in ASHAE Journal Section.

5. GOFF, J.A. and S. GRATCH - 1945:
   Thermodynamic Properties of Moist Air --- Transactions of the American Society for Heating and Ventilation Engineers, Vol. 51, pp. 125 - 164.

6. INSTITUT FÜR METEOROLOGIE UND GEOPHYSIK DER FREIEN UNIVERSITÄT BERLIN - 1960:
   Final Technical Report Contract No. DA-91-591-EUC-1124, Wind and Density Distribution in the Free Atmosphere, Period: 15 April 1959 to 15 April 1960.

7. MINZNER, R.A., CHAMPION, K.S.W. and H.L. POND - 1959:
   The ARDC Model Atmosphere, 1959 - Geophysics Research Directorate, Air Force Cambridge Research Center, Bedford/Massachusetts; Report No. AFCRC-TR-59-267 (Air Force Surveys in Geophysics No. 115), August 1959.

8. SMITHSONIAN METEOROLOGICAL TABLES - 1958:
   Section IV, Geopotential and Aerological Tables, pp. 217 - 219 --- Sixth Revised Edition, First Reprint, City of Washington, D. C., 1958.

PREVIOUS PARTS OF AOMC CLIMATOLOGICAL RINGBOOK

Part I - Ambient Temperature as a Function of Altitude for Ten Selected Stations - Report No. DA-TR-8-59, 19 June 1959

Part II - Ambient Density as a Function of Altitude for Ten Selected Stations - Report No. DA-TR-60-59, 1 September 1959

Part III - Ambient Pressure-Height Data as a Function of Altitude for Ten Selected Stations - Report No. DA-TR-61-59, 1 September 1959

Part IV - Empirical Frequency Distributions of Wind Components at Constant Altitude Levels - Keflavik, Iceland - Report No. RR-TR-61-8, 6 October 1961

Part V - Empirical Frequency Distributions of Wind Components at Constant Altitude Levels - Wiesbaden, Germany - Report No. RR-TR-61-9, 12 October 1961

Part VI - Empirical Frequency Distributions of Wind Components at Constant Altitude Levels - Thule, Greenland - Report No. RR-TR-61-10, 13 October 1961

Part VII - Empirical Frequency Distributions of Pressure, Temperature and Air Density at Levels of Constant Altitude - Tripoli, Libya - Report No. RR-TR-61-11, 18 October 1961

Part VIII - Empirical Frequency Distributions of Pressure, Temperature and Air Density at Levels of Constant Altitude - Wiesbaden, Germany - Report No. RR-TR-61-12, 19 October 1961

Part IX - Empirical Frequency Distributions of Pressure, Temperature and Air Density at Levels of Constant Altitude - Patrick AFB/Cape Canaveral, Florida - Report No. RR-TR-61-13, 20 October 1961

Part X - Empirical Frequency Distributions of Wind Components at Constant Altitude Levels - Tripoli, Libya - Report No. RR-TR-61-14, 23 October 1961

Part XI - Empirical Frequency Distributions of Wind Components at Constant Altitude Levels - Berlin - Tempelhof, Germany - Report No. RR-TR-61-15, 24 October 1961

Part XII - Empirical Frequency Distributions of Wind Components at Constant Altitude Levels - Tokyo/Nagoya, Japan - Report No. RR-TR-61-16, 25 October 1961

Part XIII - Empirical Frequency Distributions of Pressure, Temperature and Air Density at Levels of Constant Altitude - El Paso, Texas - Report No. RR-TR-61-17, 26 October 1961

Part XIV - Empirical Frequency Distributions of Pressure, Temperature and Air Density at Levels of Constant Altitude - Fairbanks, Alaska - Report No. RR-TR-61-18, 27 October 1961

Part XV - Empirical Frequency Distributions of Wind Components at Constant Altitude Levels - Adak, Aleutian Islands, Alaska - Report No. RR-TR-61-19, 28 October 1961

Part XVI - Empirical Frequency Distributions of Wind Components at Constant Altitude Levels - Alert, Ellesmere Islands, Canada - Report No. RR-TR-61-20, 30 October 1961

Part XVII - Empirical Frequency Distributions of Wind Components at Constant Altitude Levels - Fairbanks, Alaska - Report No. RR-TR-61-21, 31 October 1961

Part XVIII - Empirical Frequency Distributions of Pressure, Temperature and Air Density at Levels of Constant Altitude - Thule, Greenland - Report No. RR-TR-61-22, 1 November 1961

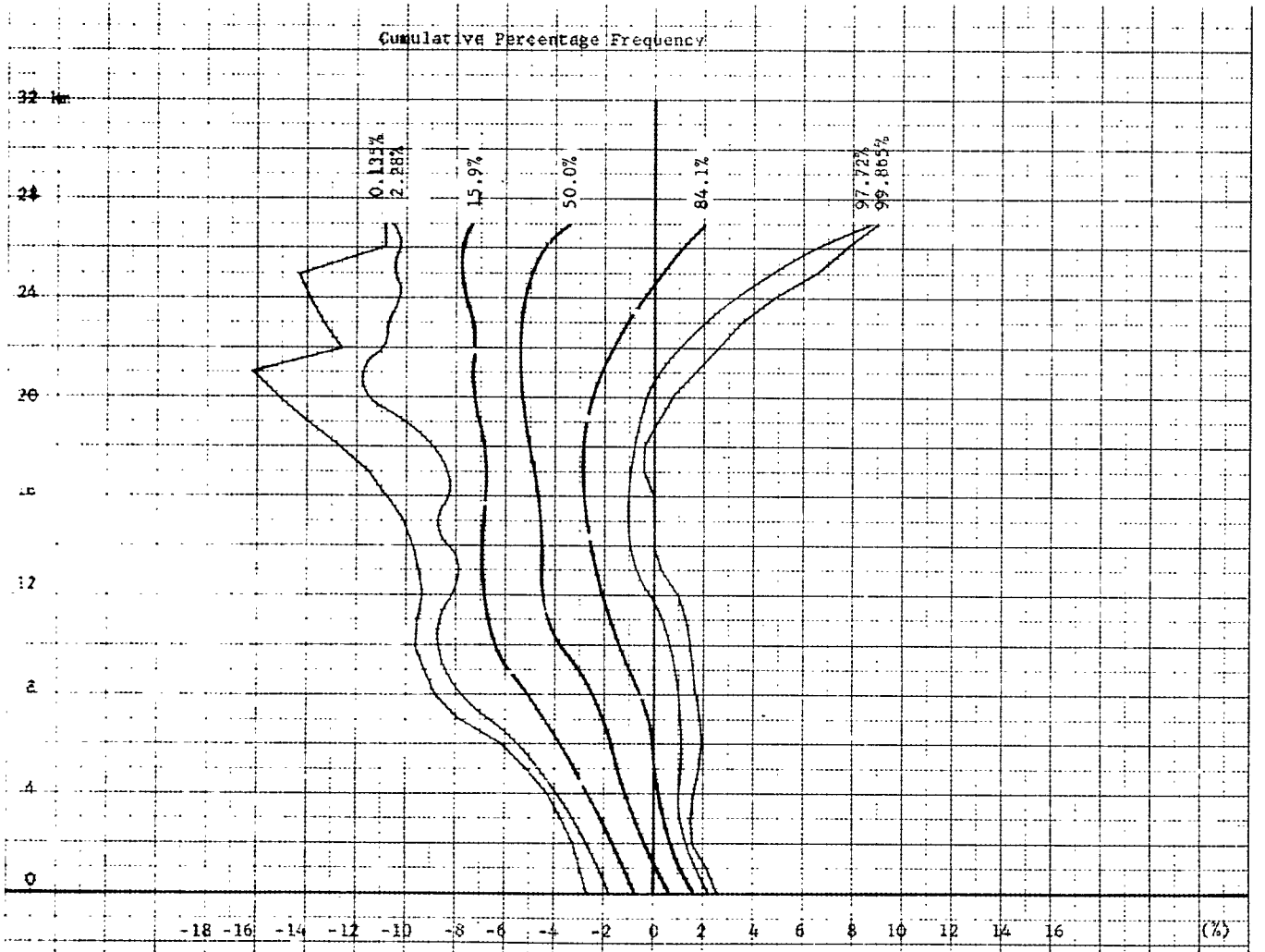

Fig. I (1)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - January	RR-TR 61-23

Period of Observation: March 1954 - February 1959

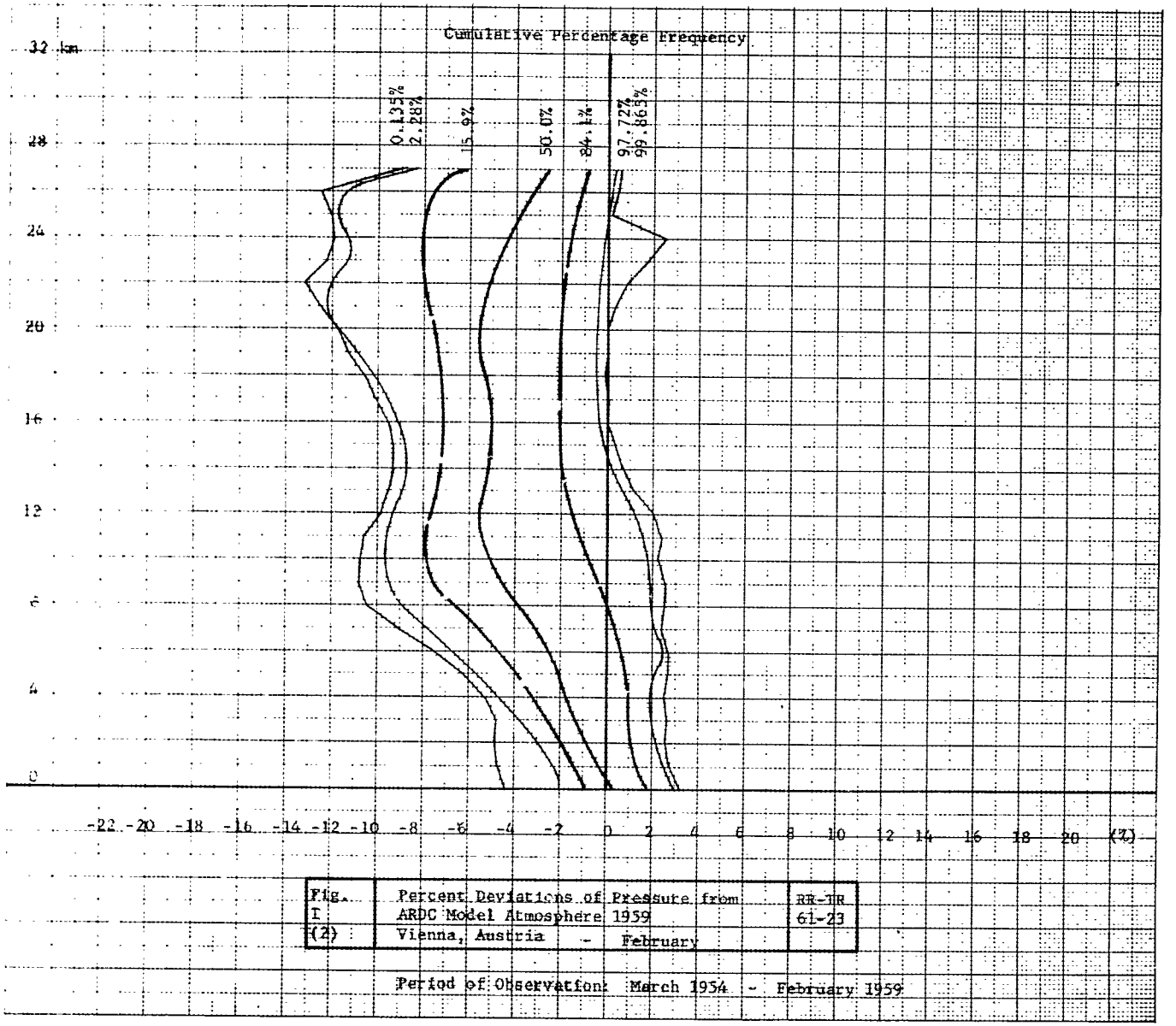

Fig. I (2)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - February	RR-TR 61-23

Period of Observation: March 1954 - February 1959

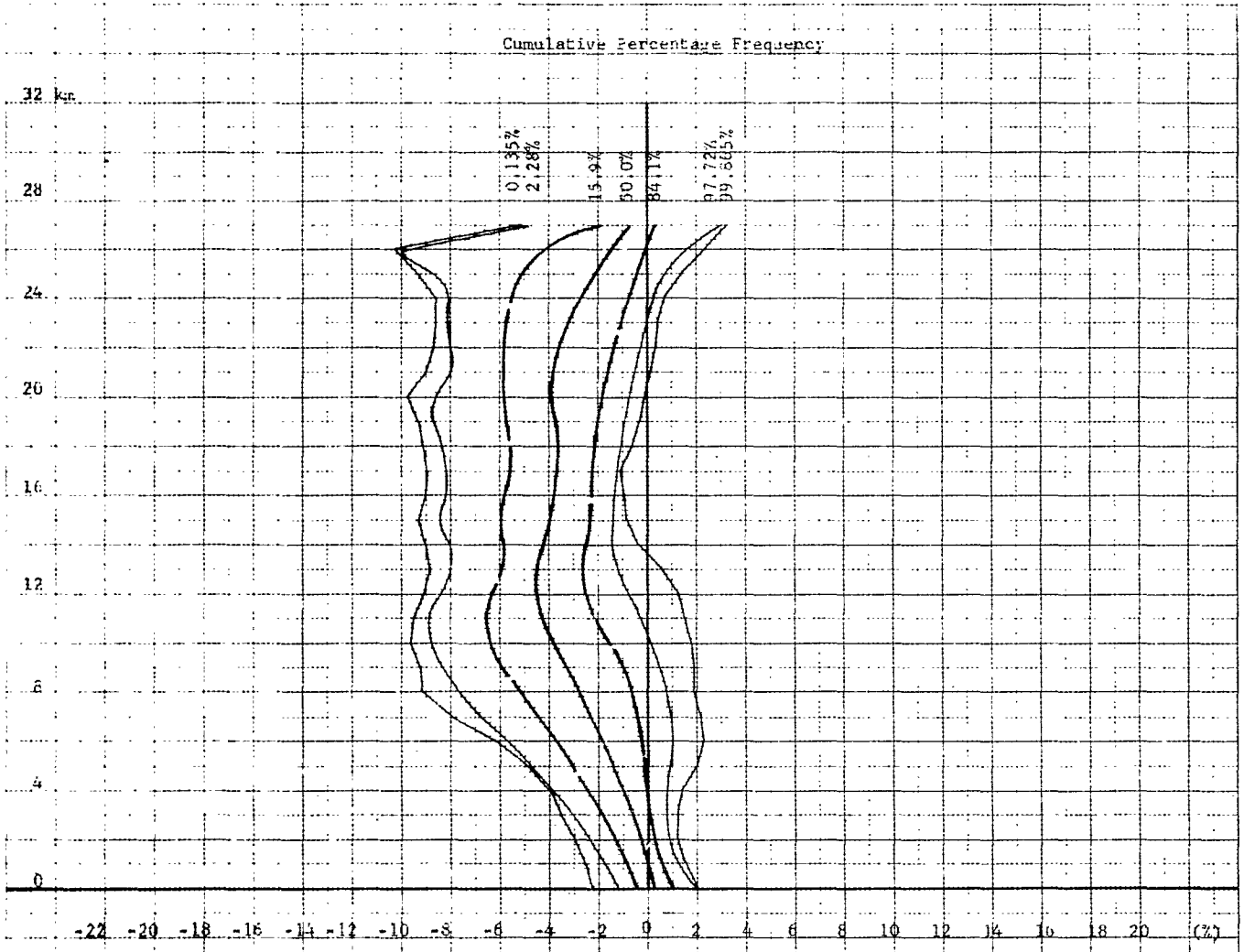

Fig. I (3)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - March	RR-TR 61-23

Period of Observation: March 1954 - February 1959

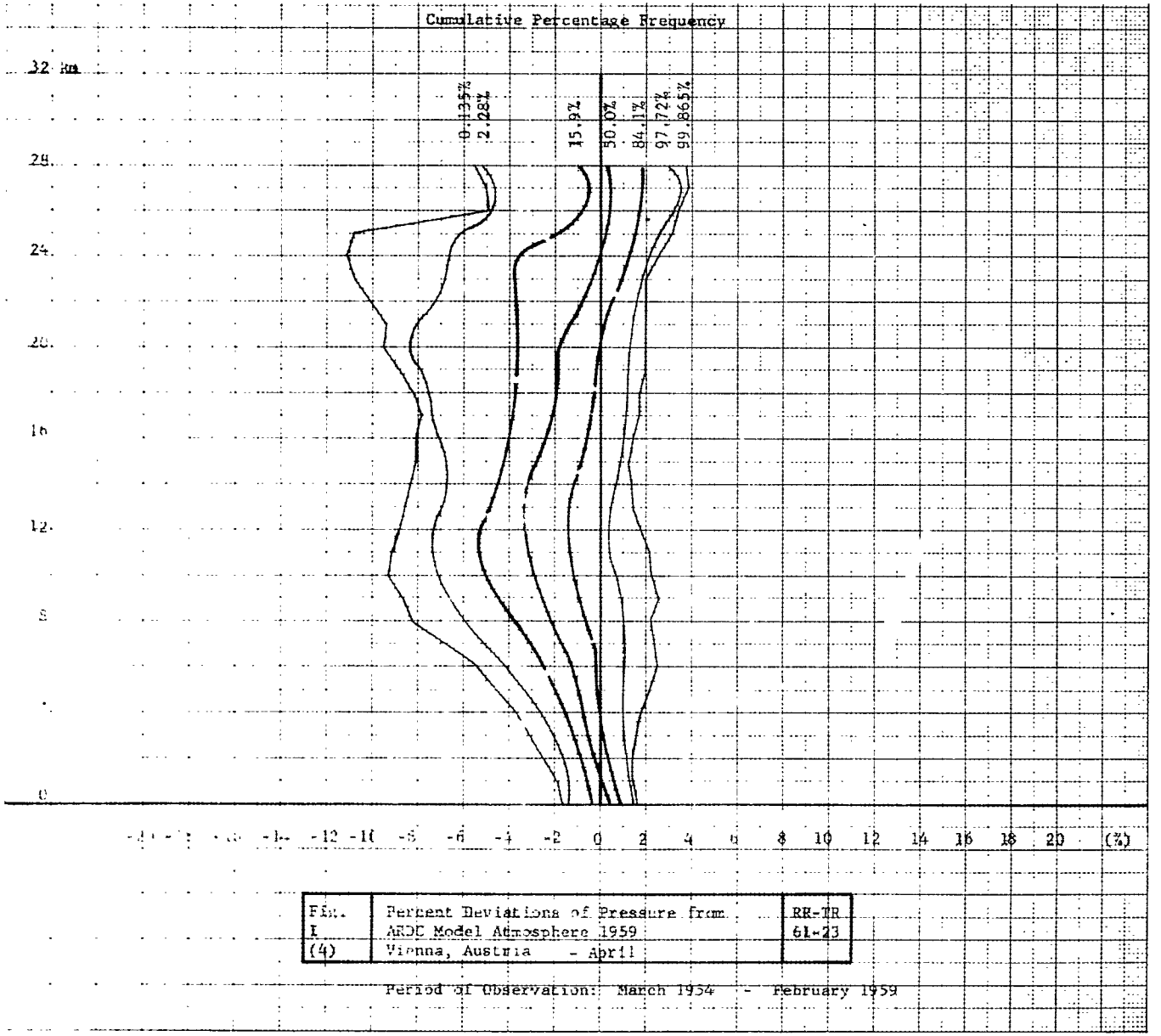

Fig. I (4)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - April	RR-TR 61-23

Period of Observation: March 1954 - February 1959

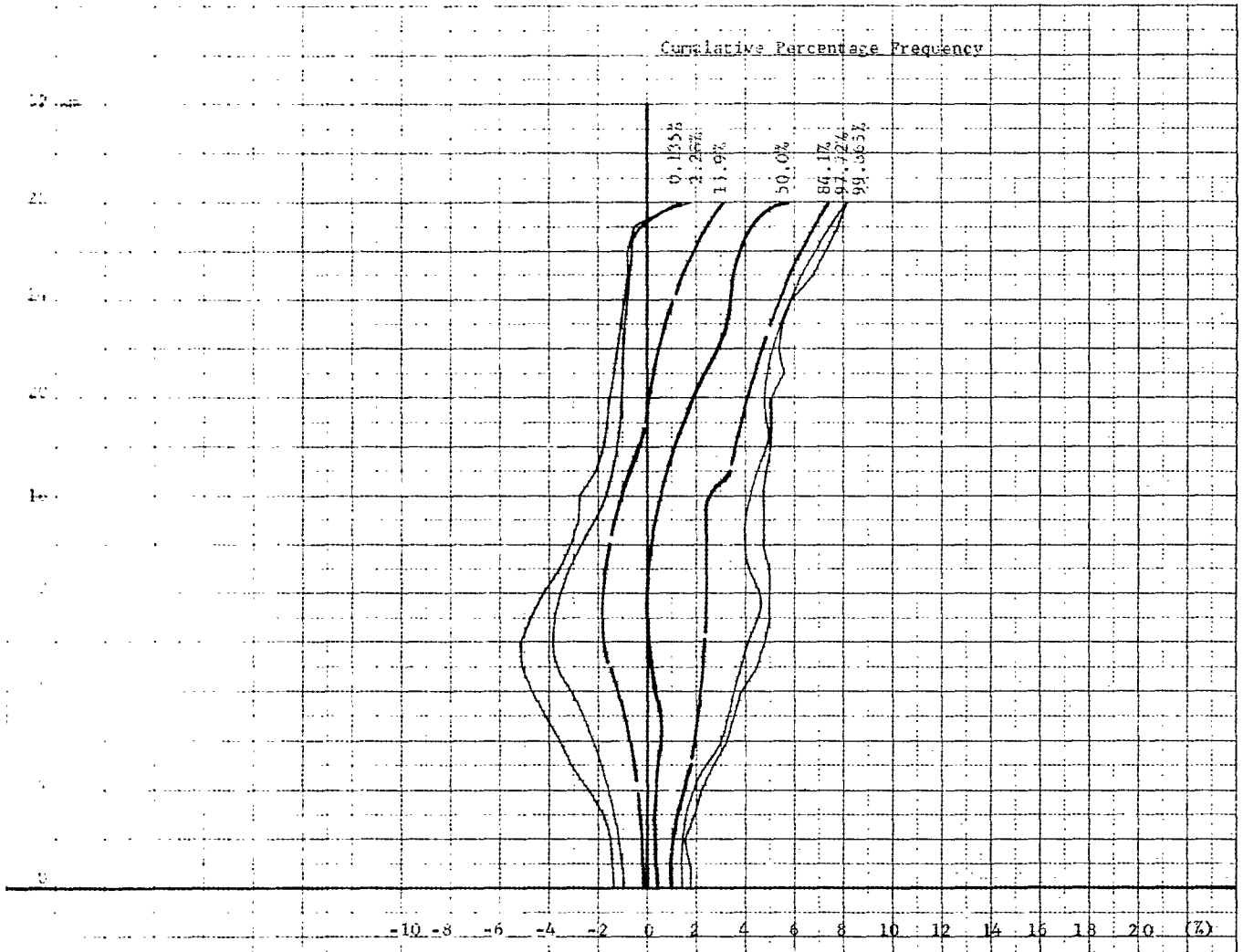

Fig. 1 (5)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - May	RR-TR 61-23

Period of Observation: March 1954 - February 1959

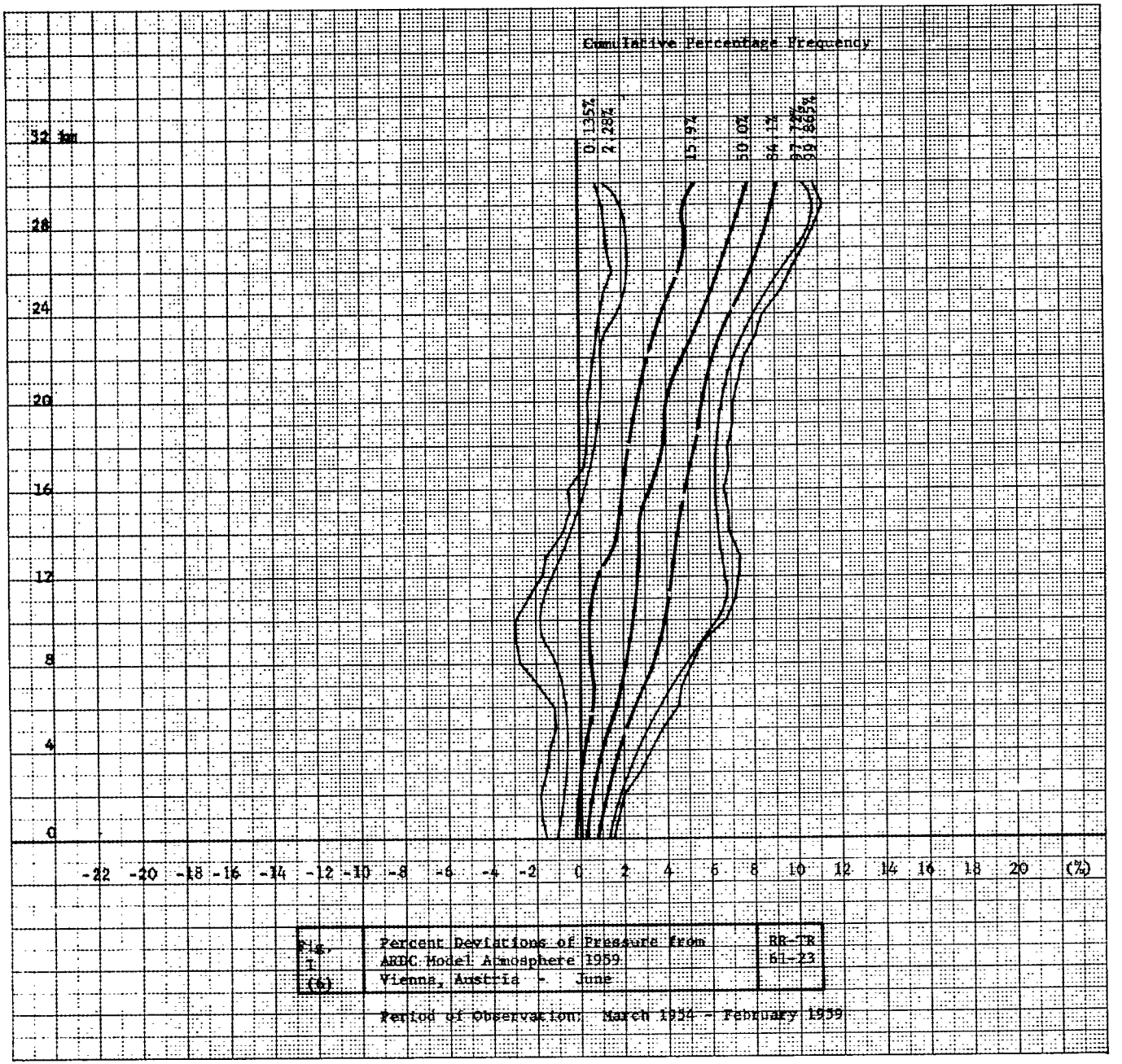

Fig. 7. (b)

Percent Deviations of Pressure from ARDC Model Atmosphere 1959
Vienna, Austria - June

RR-TR 61-23

Period of Observation: March 1954 - February 1959

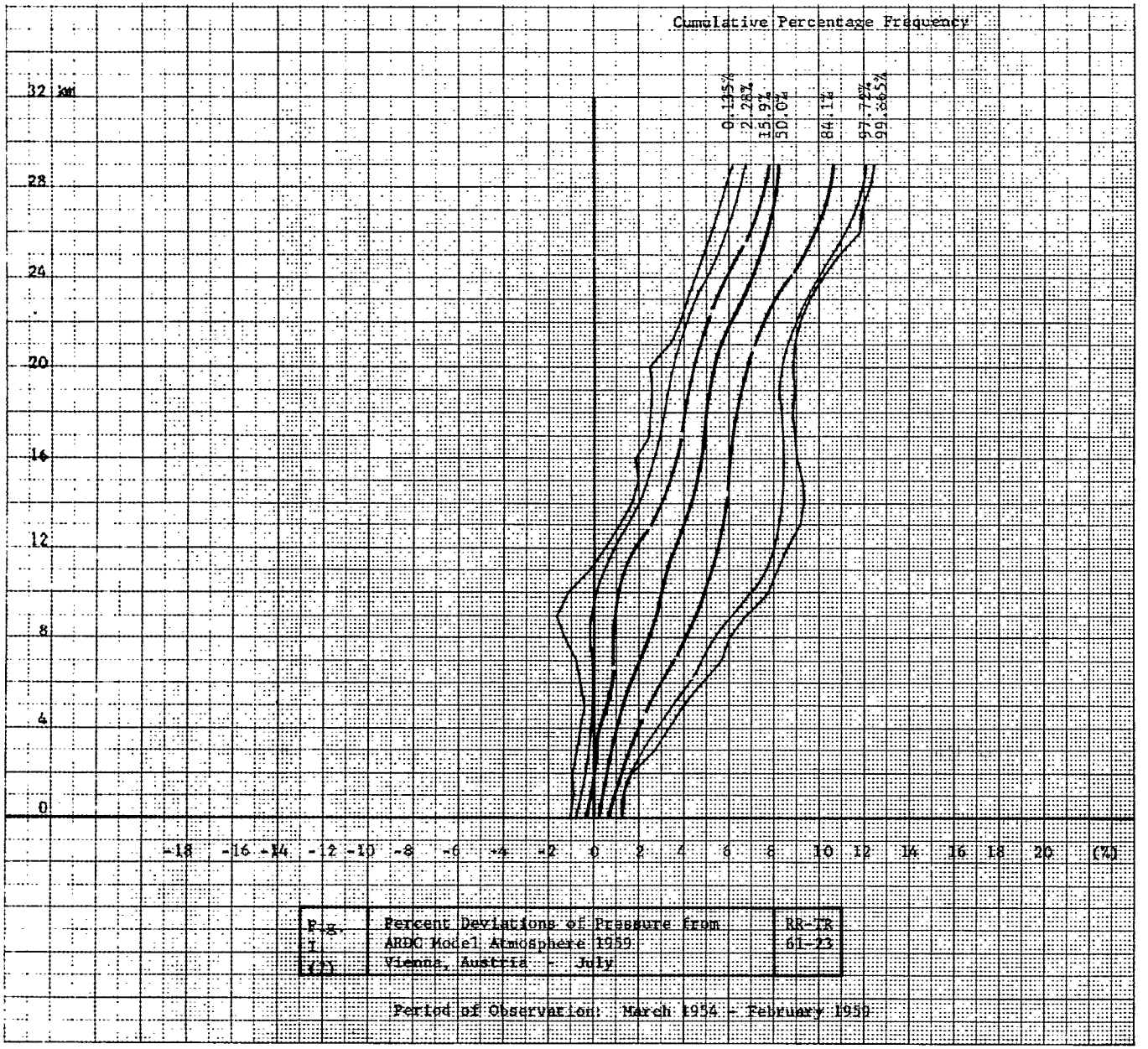

Fig. 7 (1)

Percent Deviations of Pressure from ARDC Model Atmosphere 1959
Vienna, Austria - July

RR-TR 61-23

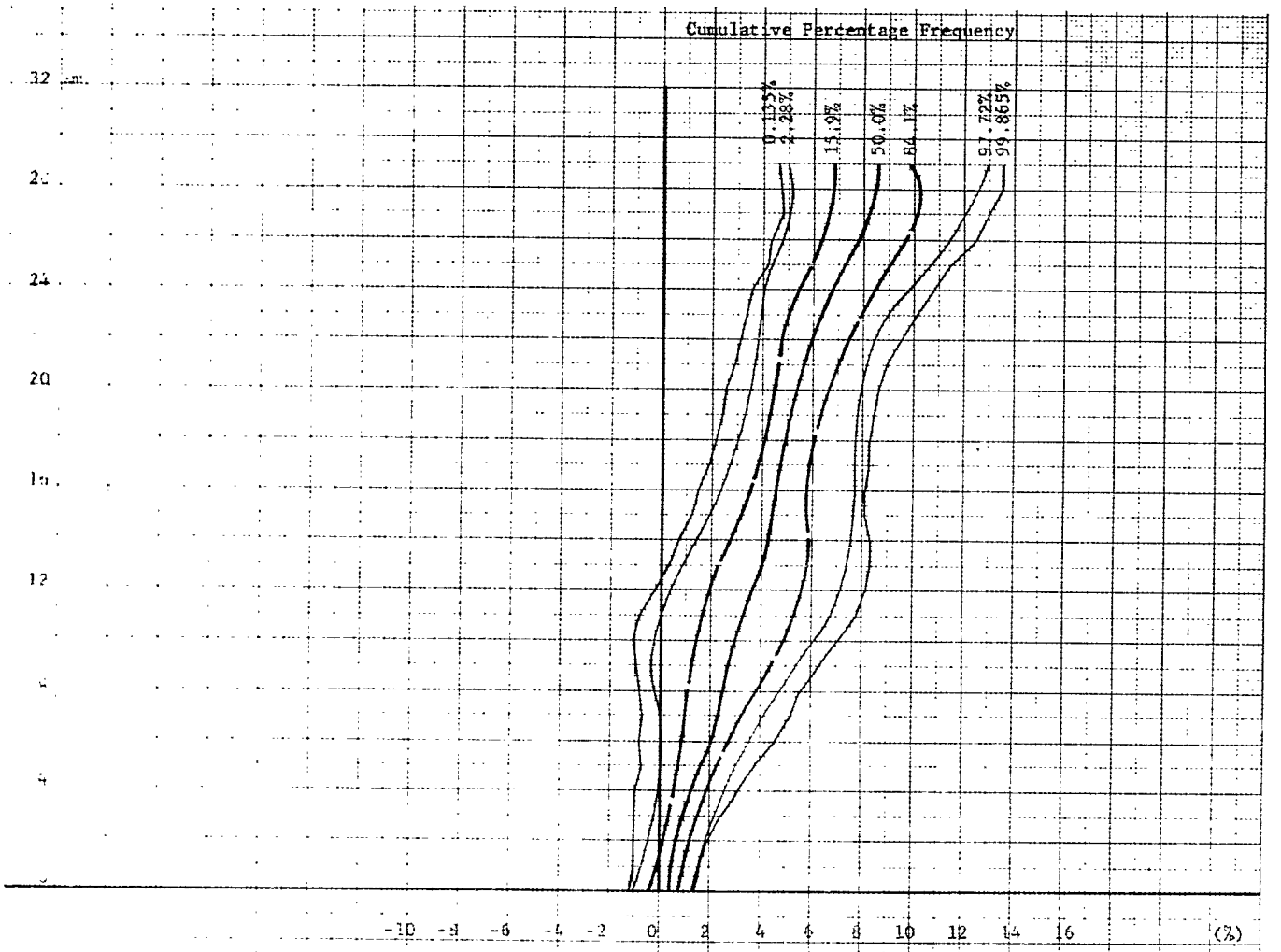

Fig. 1 (B)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - August	RR-TR 61-23

Period of Observation: March 1954 - February 1959

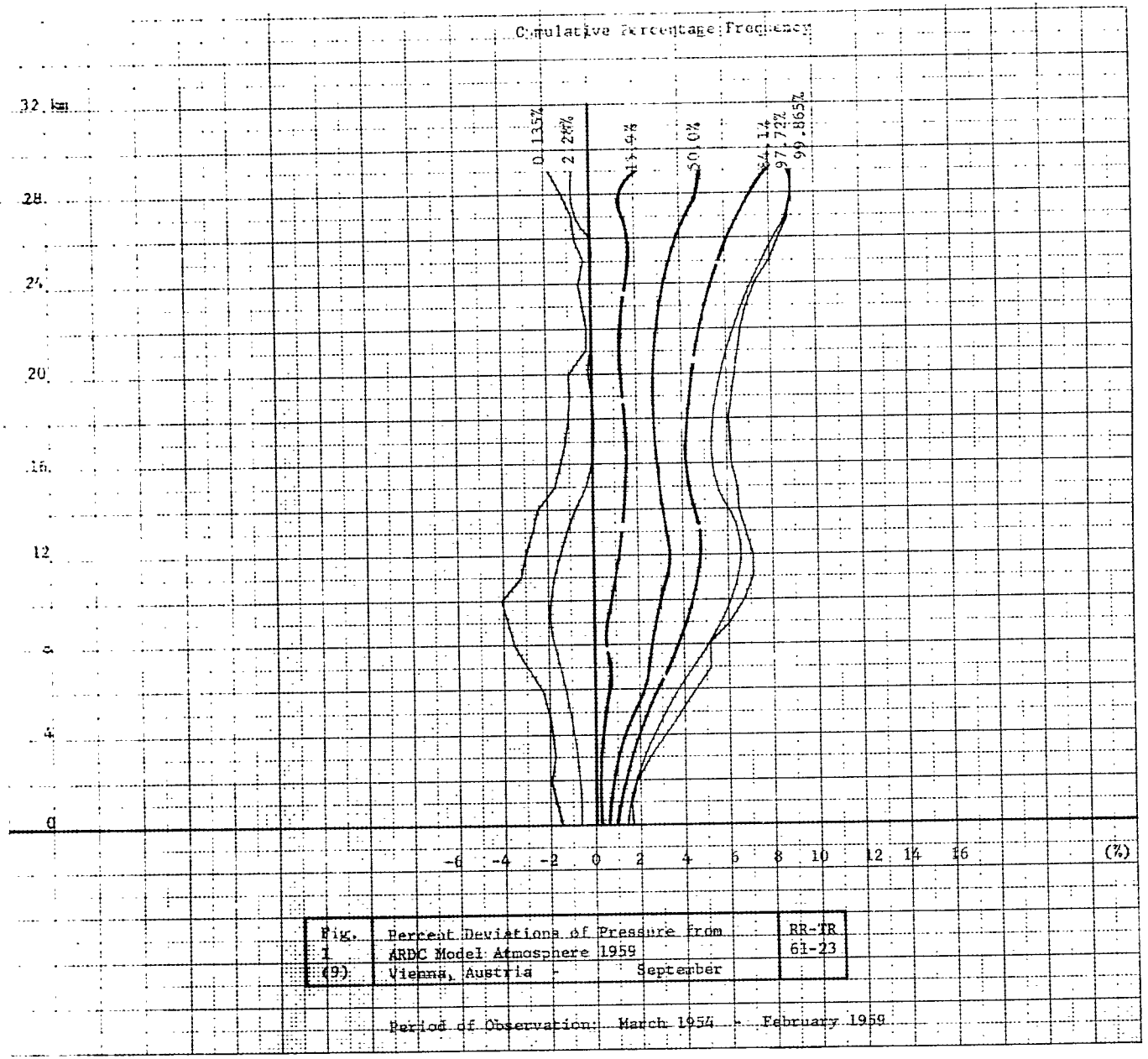

Fig. 1 (9)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - September	RR-TR 61-23

Period of Observation: March 1954 - February 1959

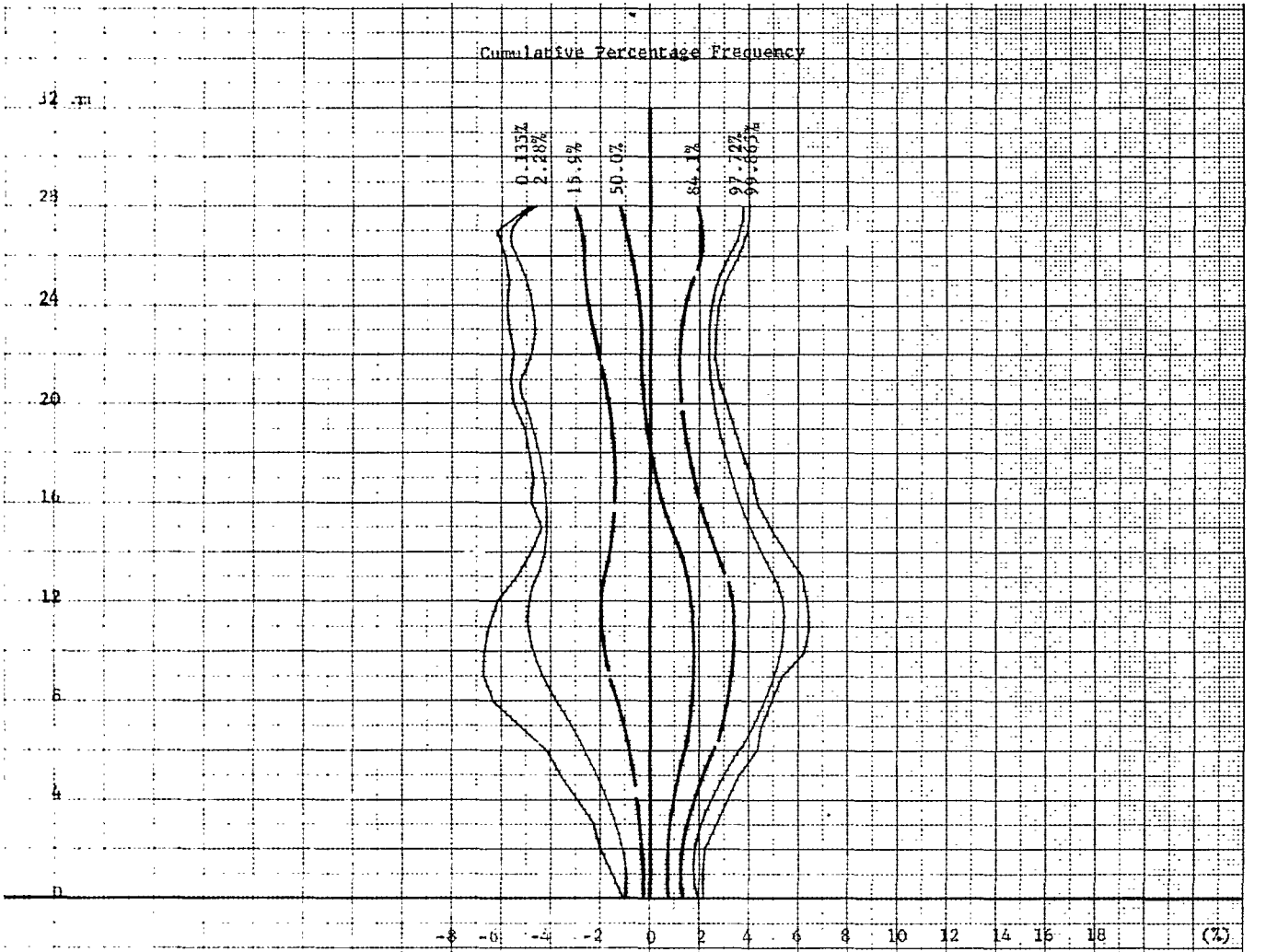

Fig. I (10)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - October	RH-TR 61-23

Period of Observation: March 1954 - February 1959

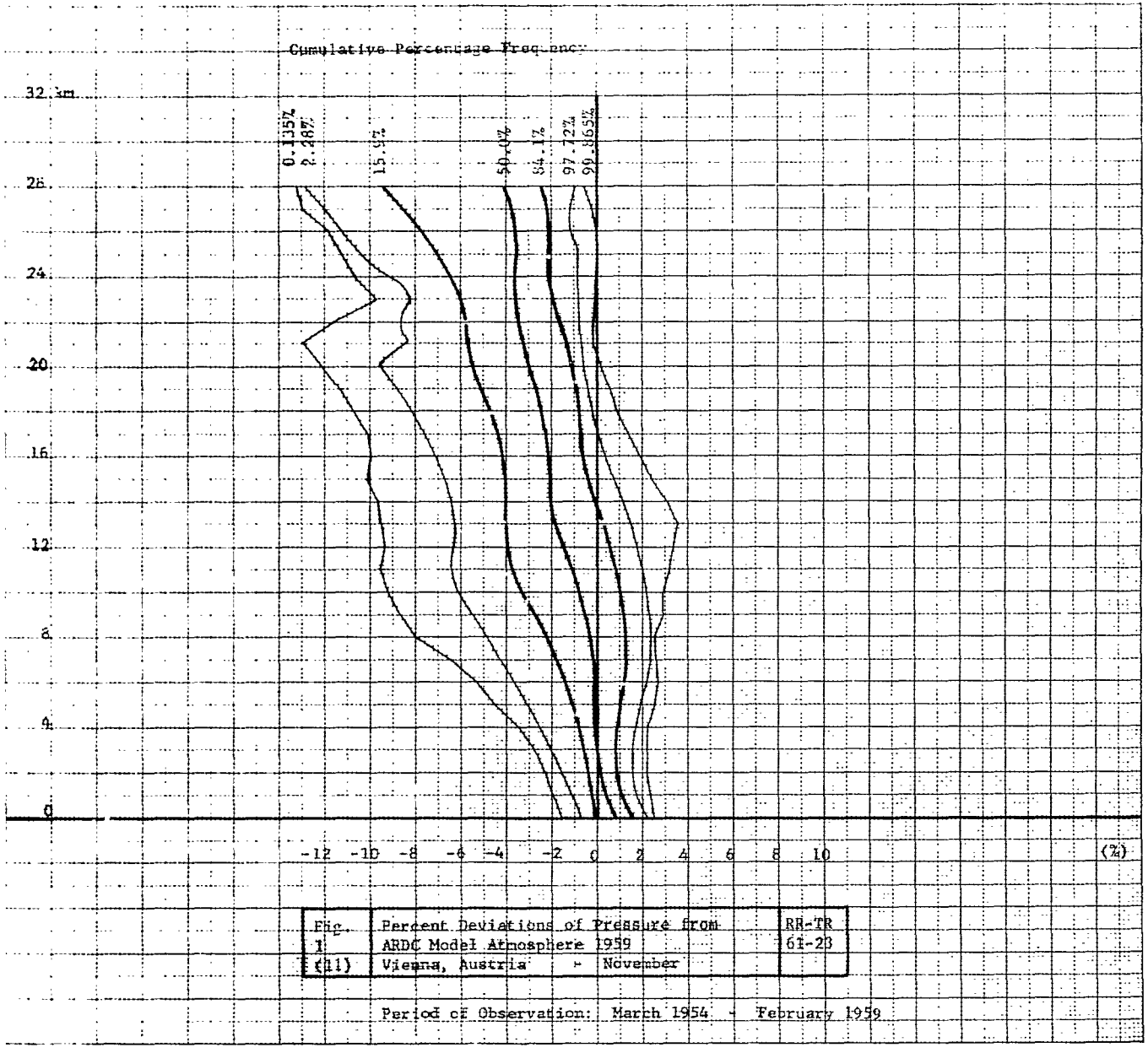

Fig. 1 (11)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - November	RR-TR 61-23

Period of Observation: March 1954 - February 1959

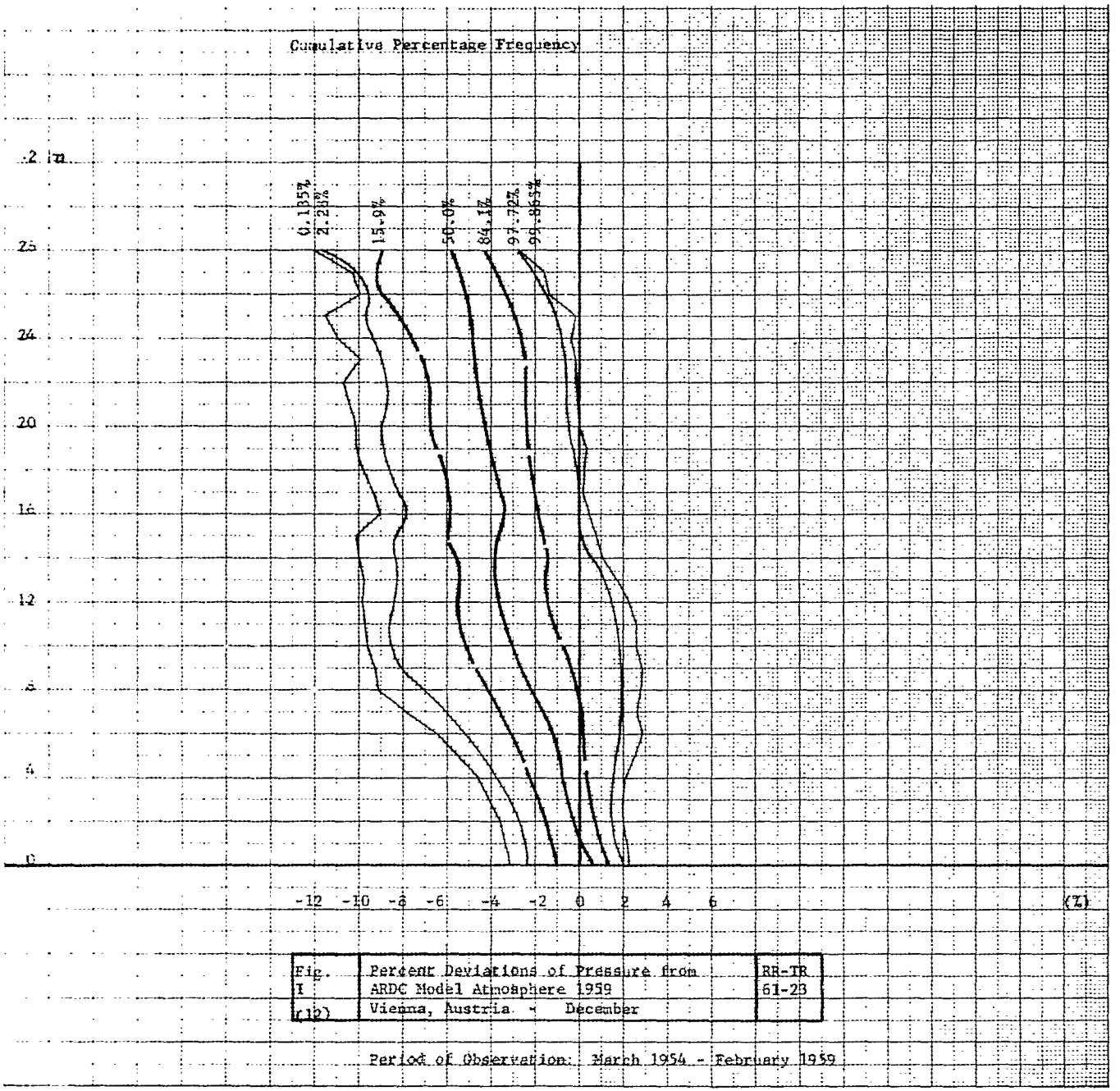

Fig. I (12)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - December	RR-TR 61-23

Period of Observation: March 1954 - February 1959

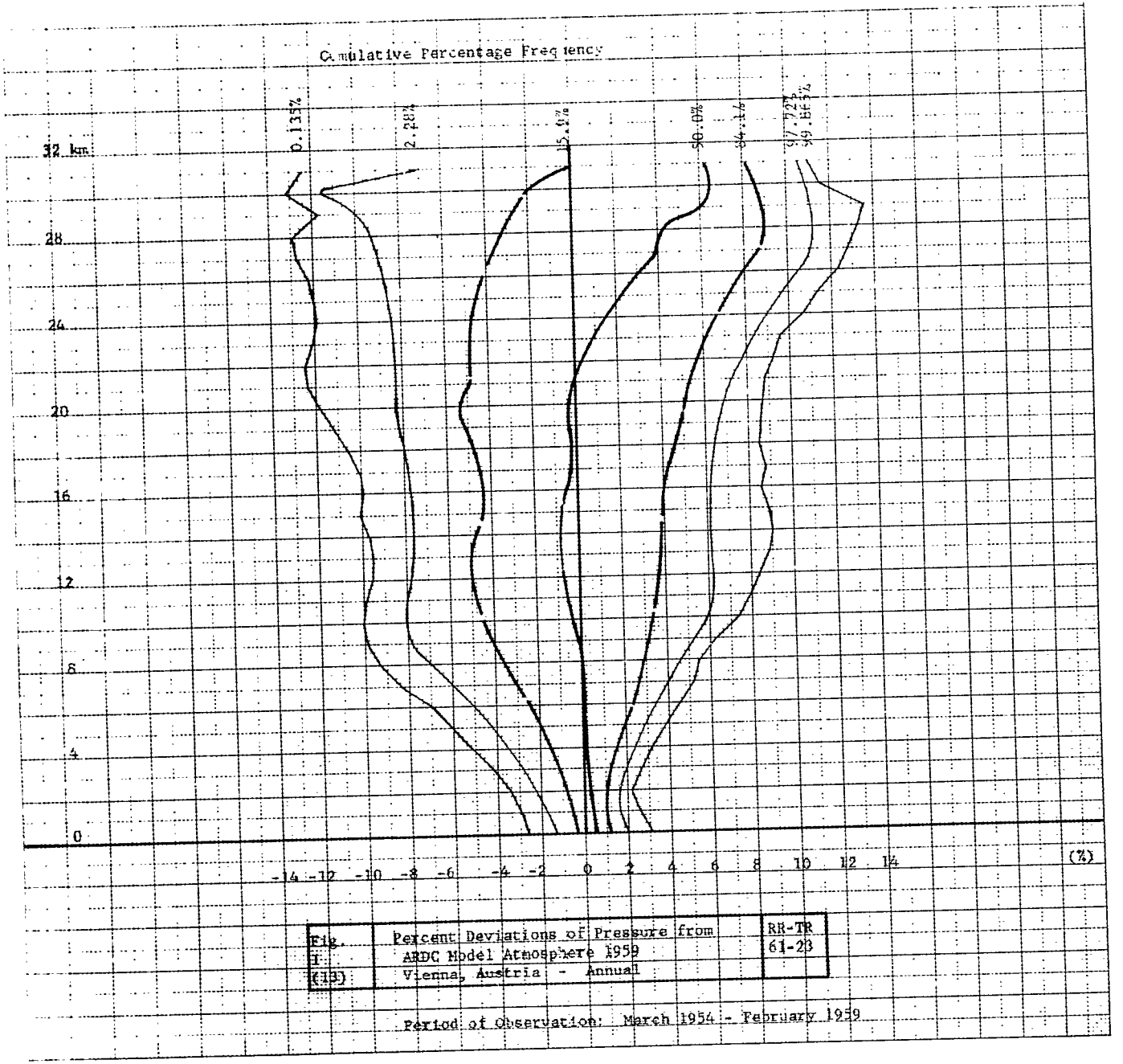

Fig. 1 (133)	Percent Deviations of Pressure from ARDC Model Atmosphere 1959 Vienna, Austria - Annual	RR-TR 61-23

Period of Observation: March 1954 - February 1959

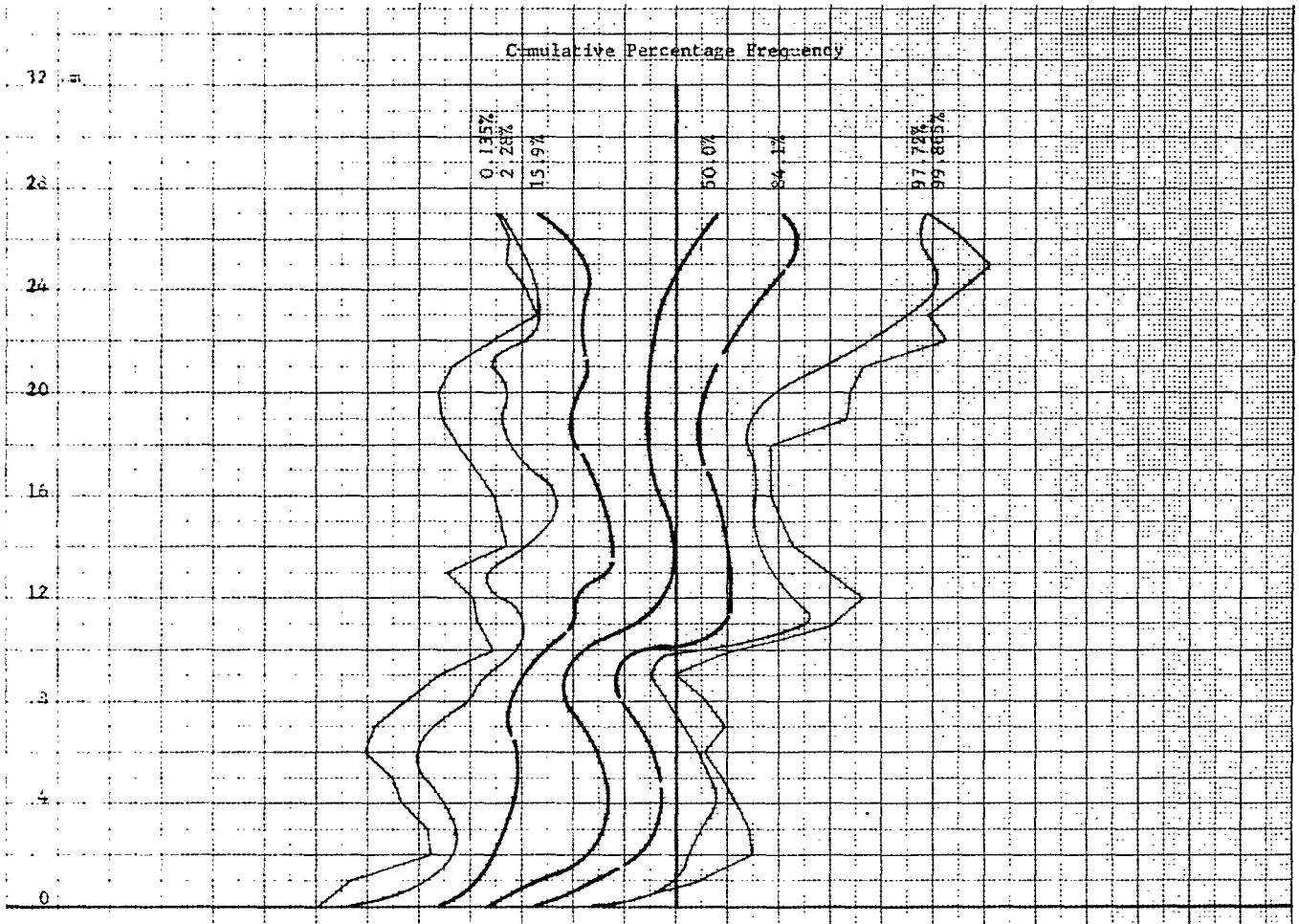

Fig. 11 (1)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - January	RR-TR 61-23

Period of Observation: March 1954 - February 1959

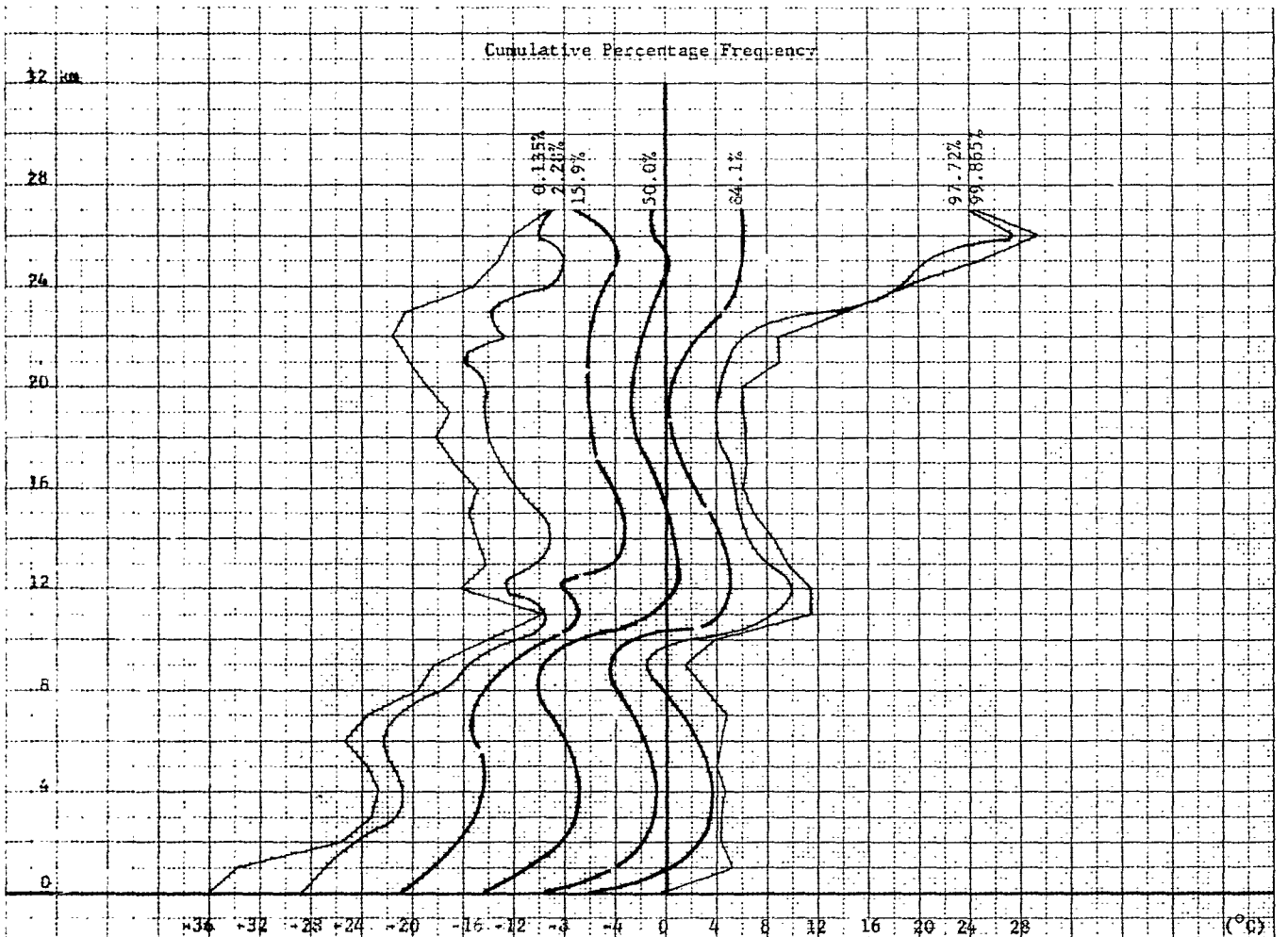

Fig. II. (2)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - February	RR-TR 61-23

Period of Observation: March 1954 - February 1959

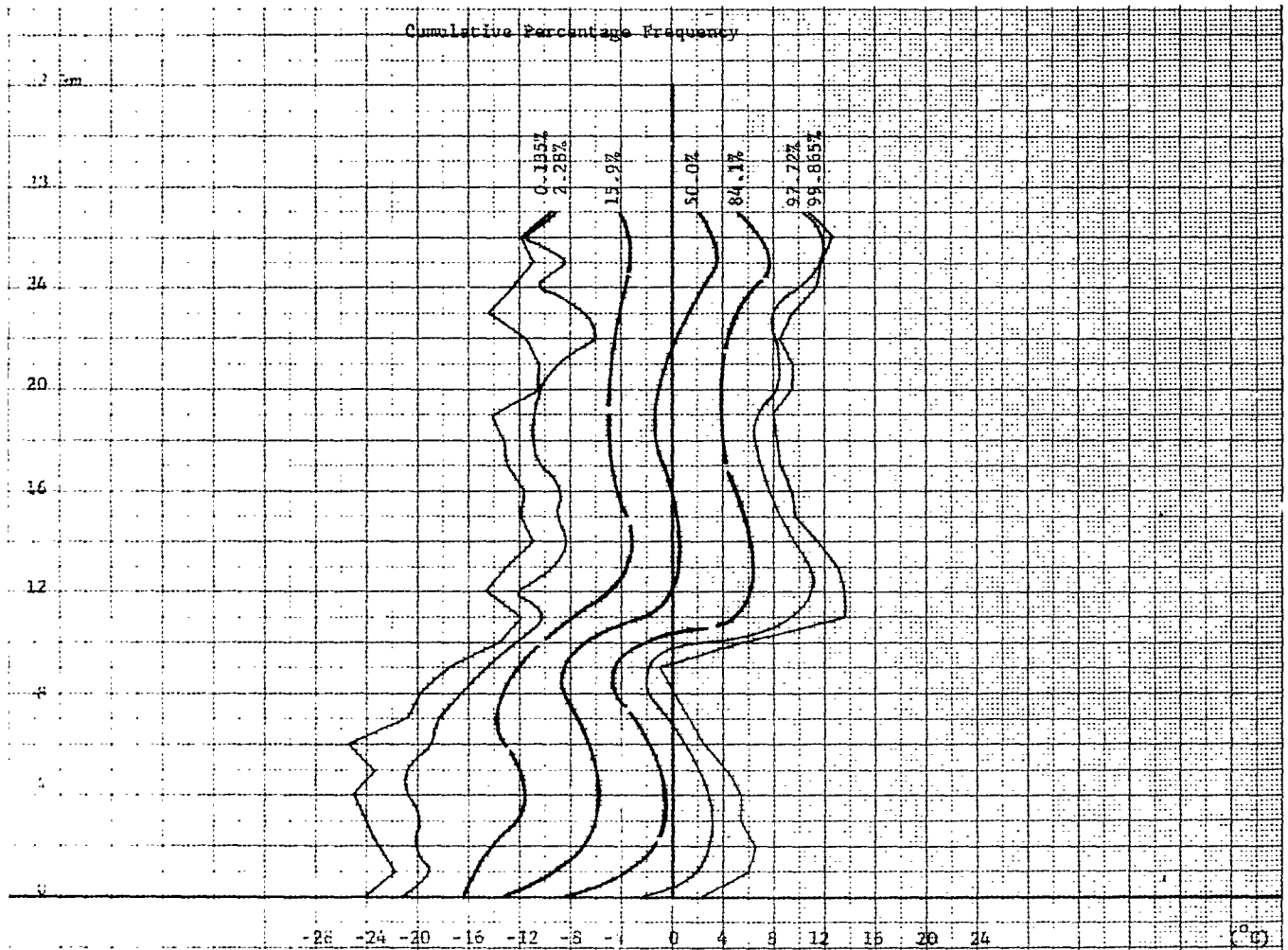

Fig. 11 (3)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - March	RE-TR 61-23

Period of Observation: March 1954 - February 1959

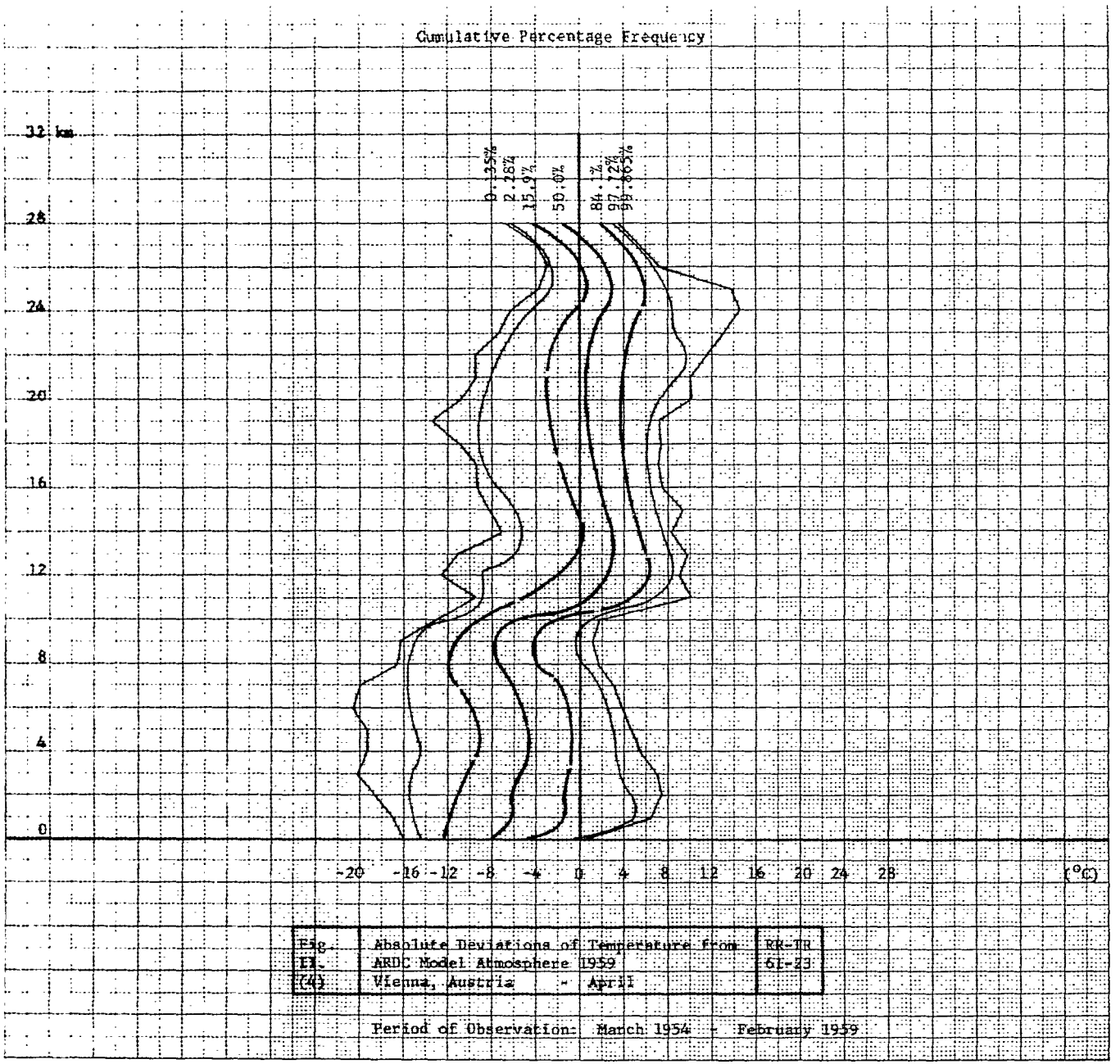

Fig. E1. (4)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - April	RR-TR 61-23

Period of Observation: March 1954 - February 1959

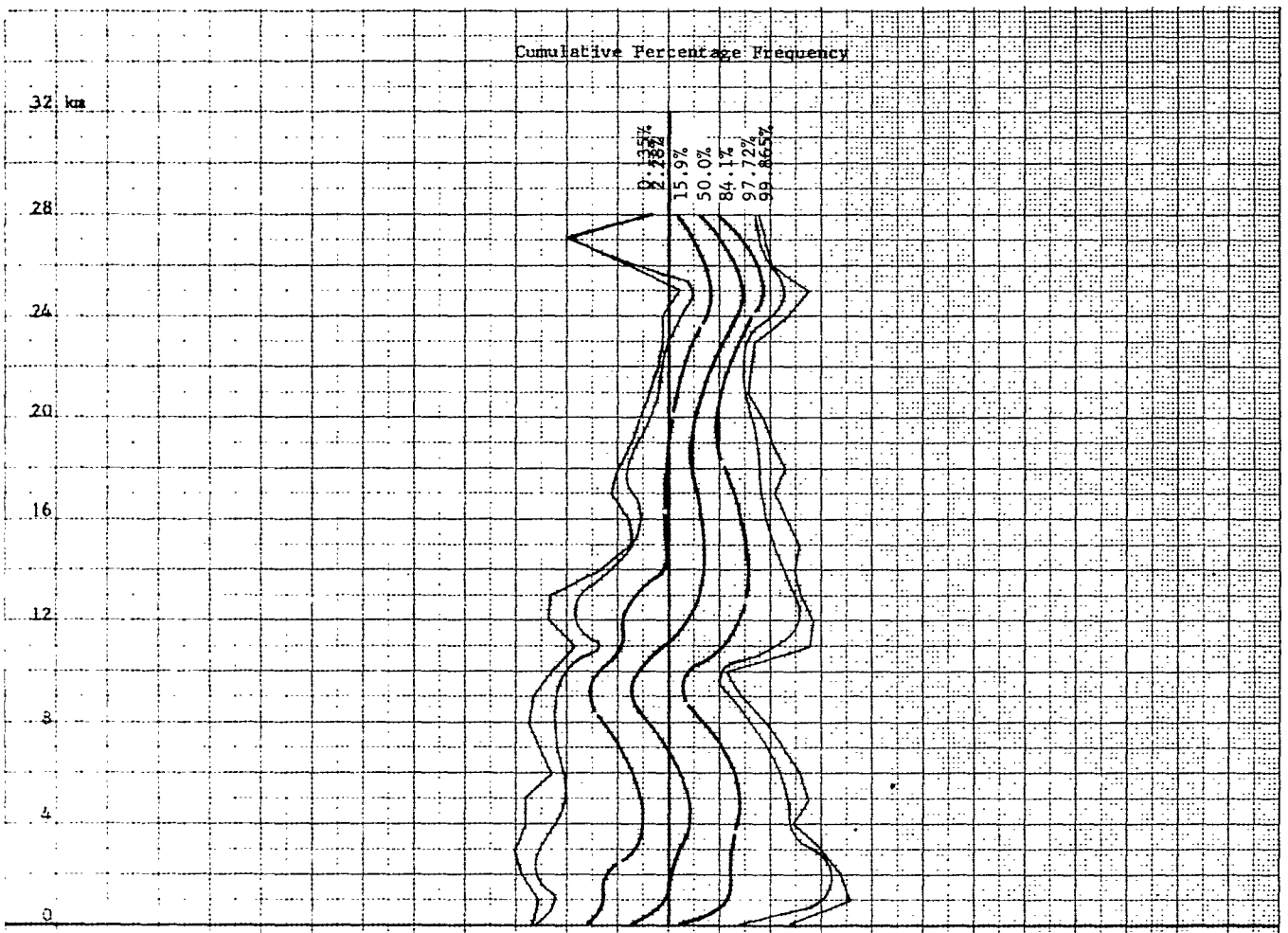

Fig. II. (5)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - May	RR-TR 61-23

Period of Observation: March 1954 - February 1959

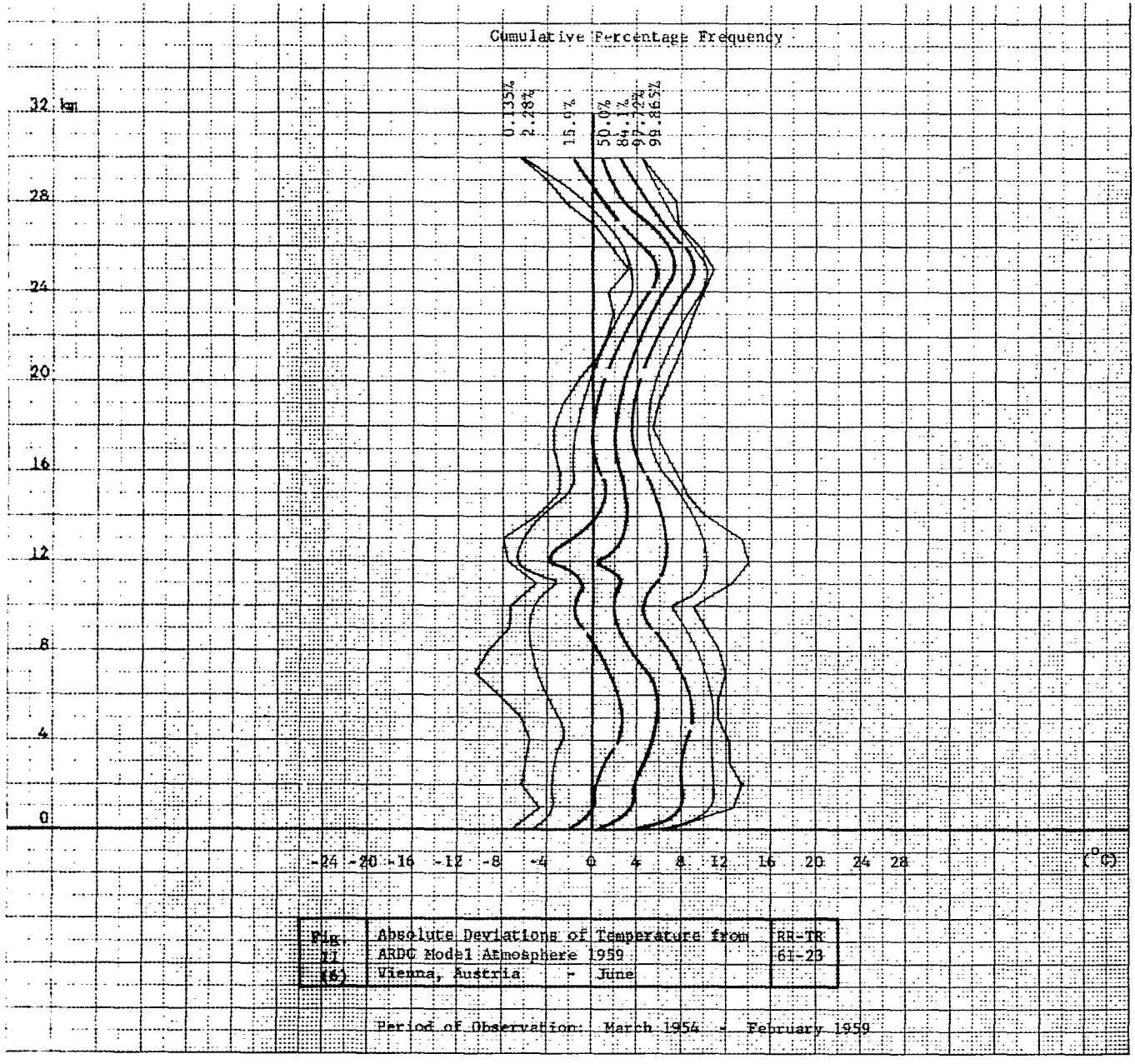

Fig. 11 (6)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - June	RR-TR 61-23

Period of Observation: March 1954 - February 1959

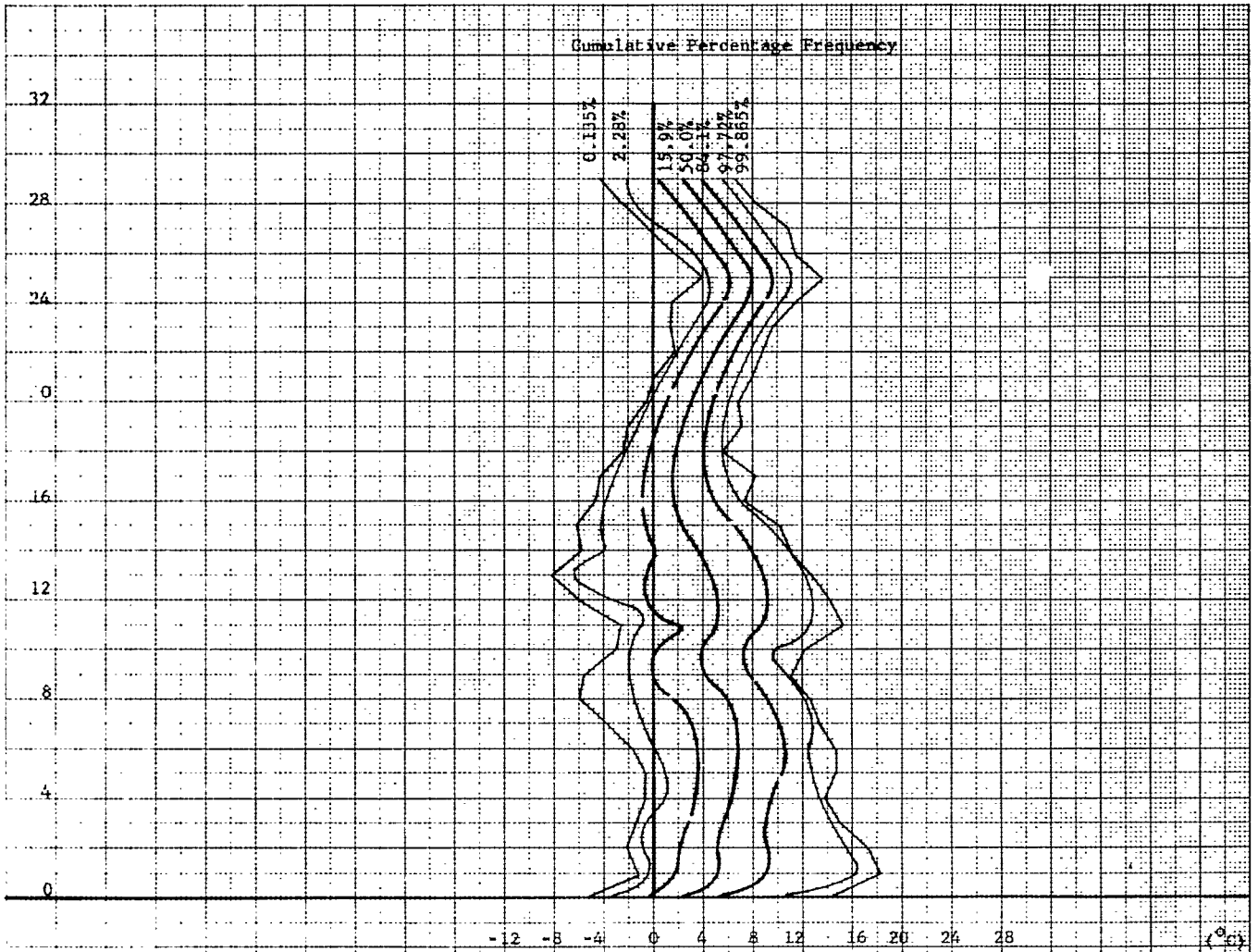

Fig. II. (7)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - July	RR-TR 61-23

Period of Observation: March 1954 - February 1959

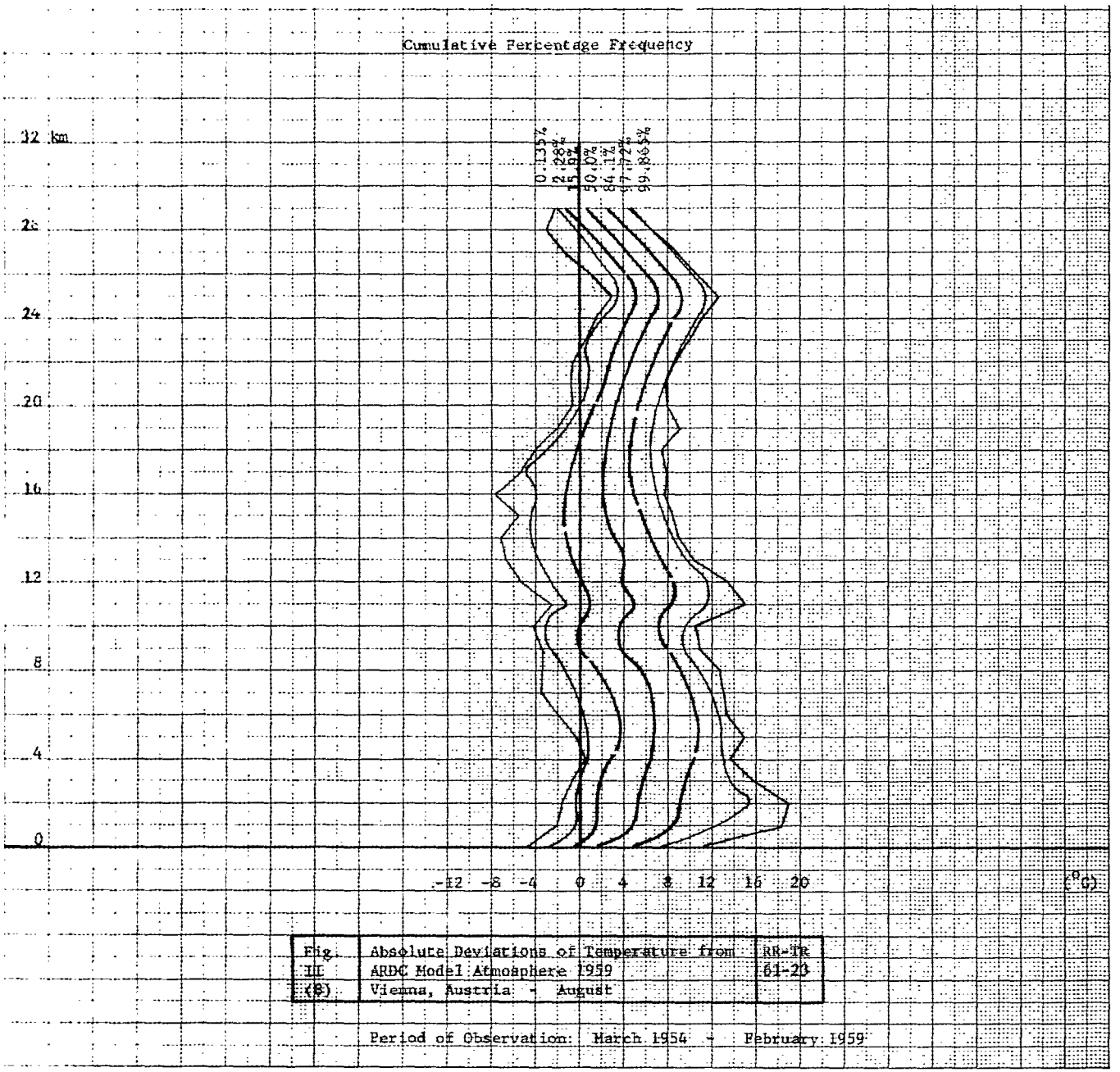

Fig. III (8)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - August	RR-TR 61-23

Period of Observation: March 1954 - February 1959

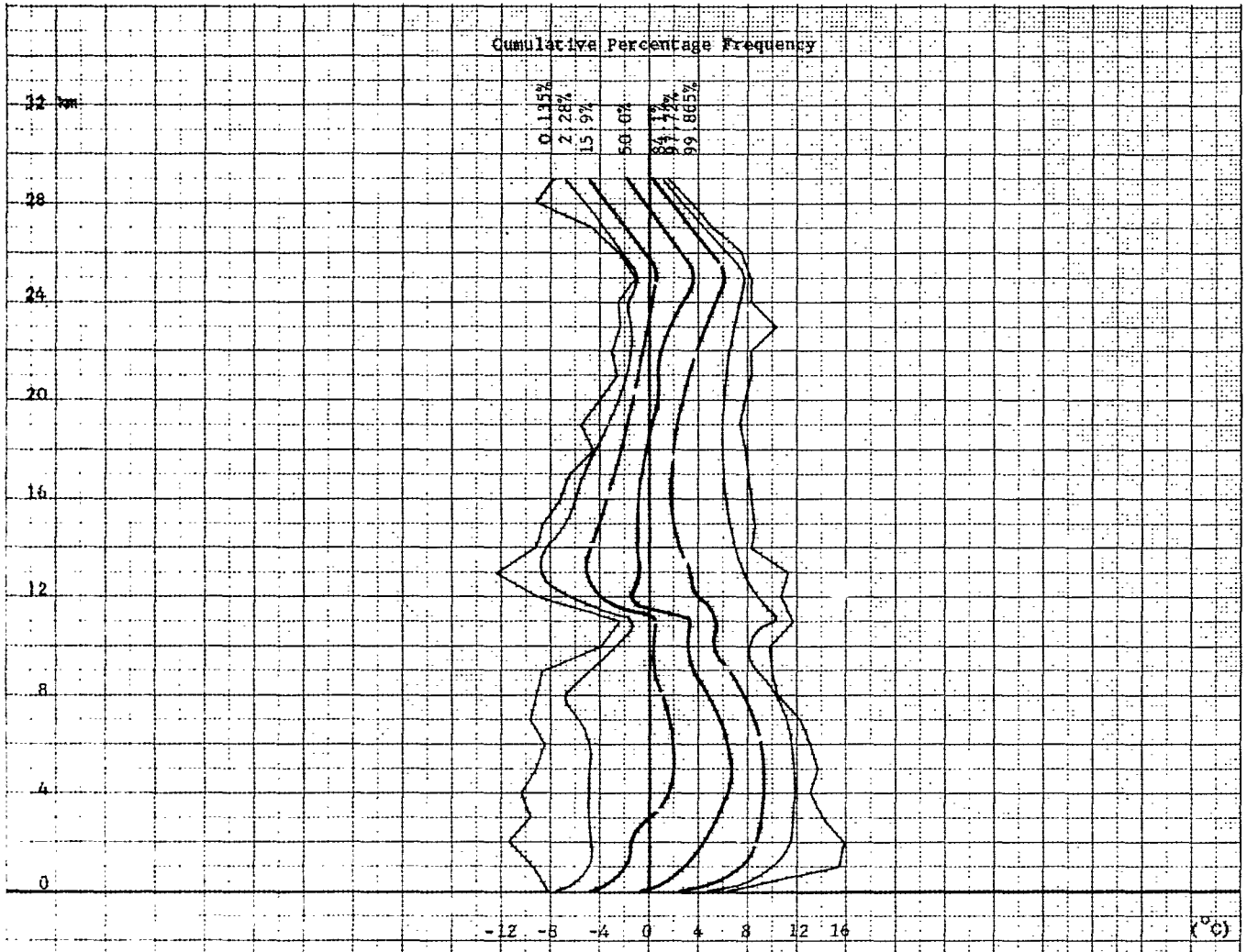

Fig. II (9)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - September	RR-TR 61-23

Period of Observation: March 1954 - February 1959

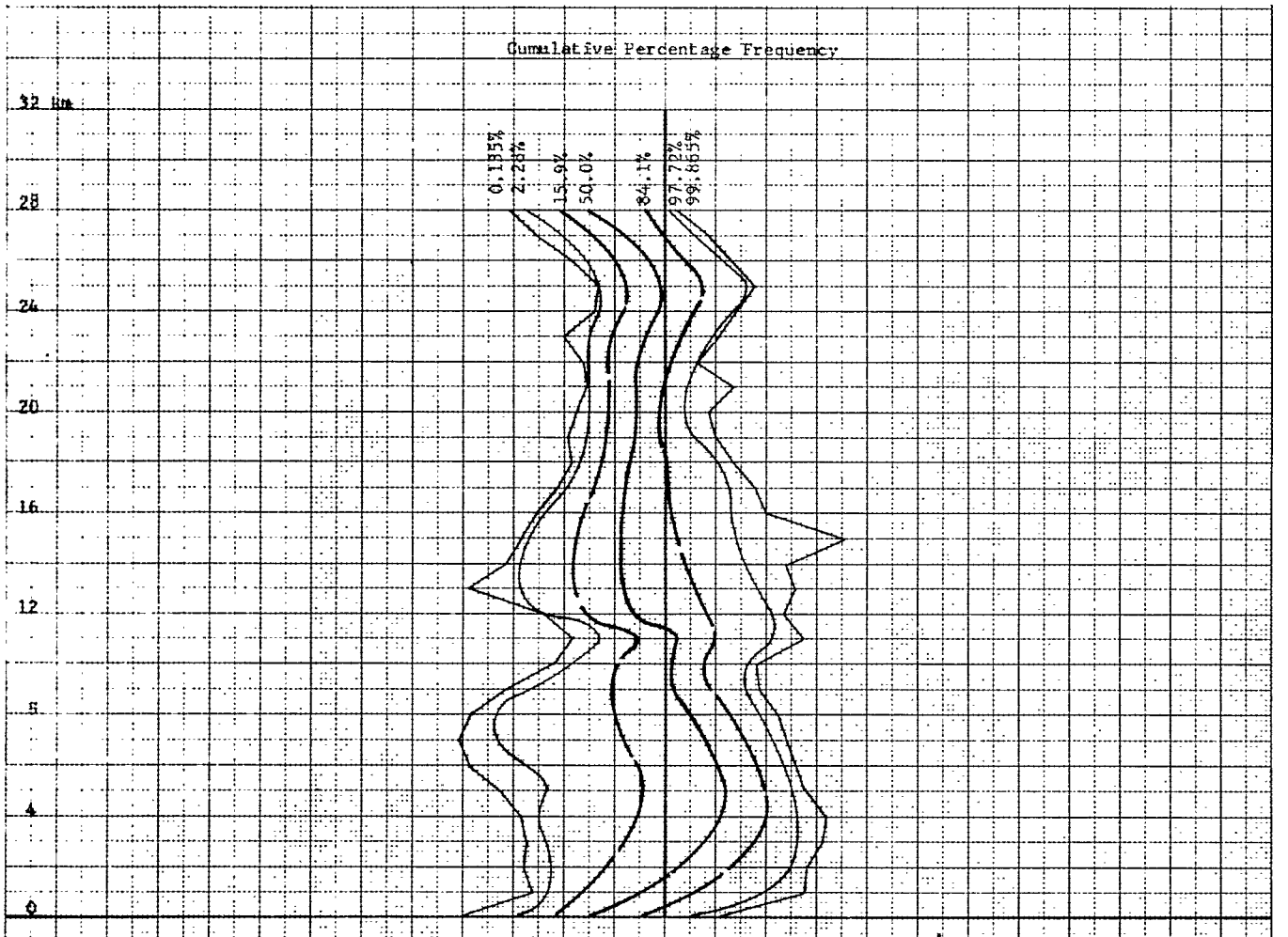

Fig. II (10)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - October	RR-TR 61-23

Period of Observation: March 1954 - February 1959

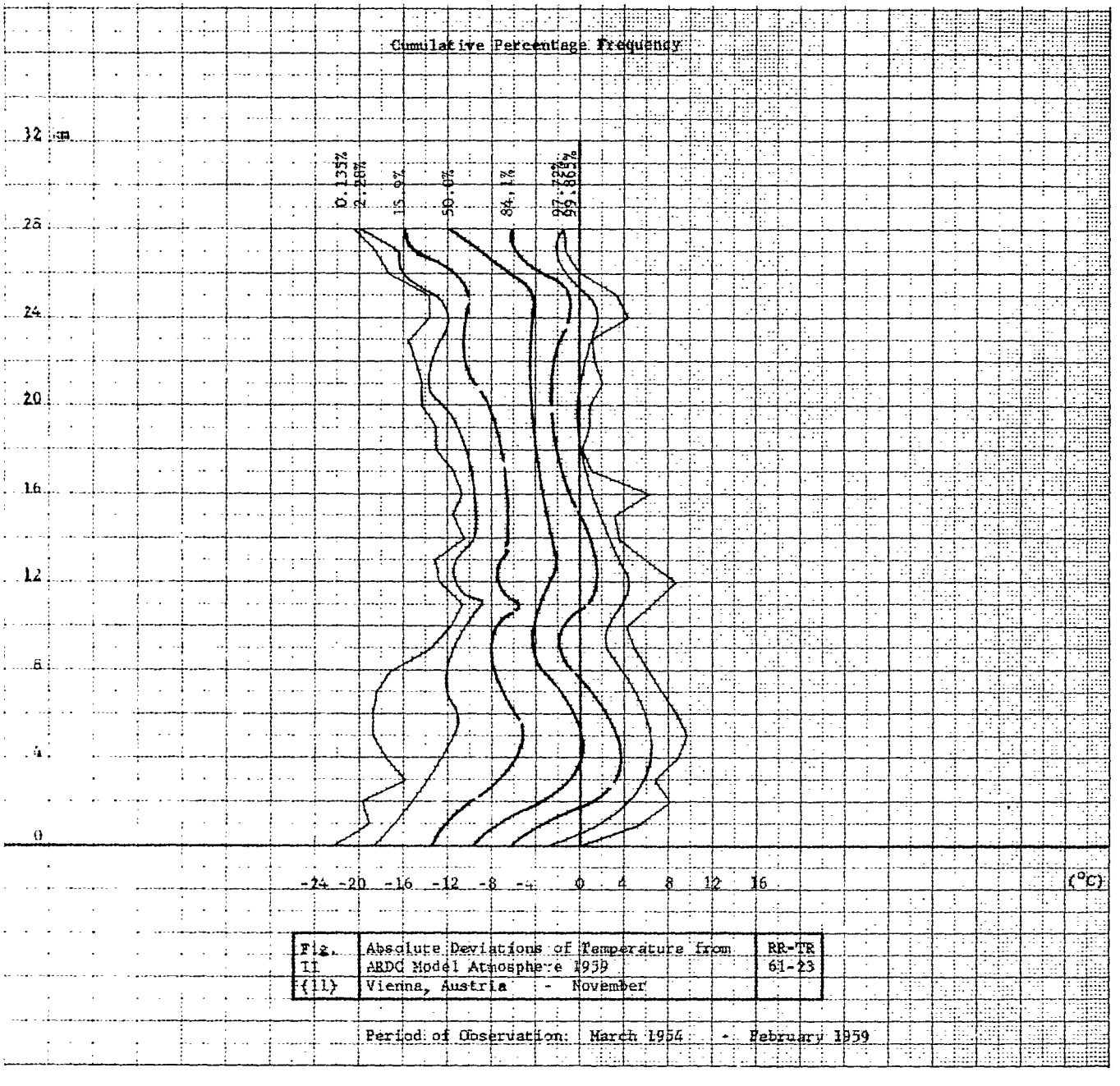

Fig. II (11)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - November	RR-TR 61-23

Period of Observation: March 1954 - February 1959

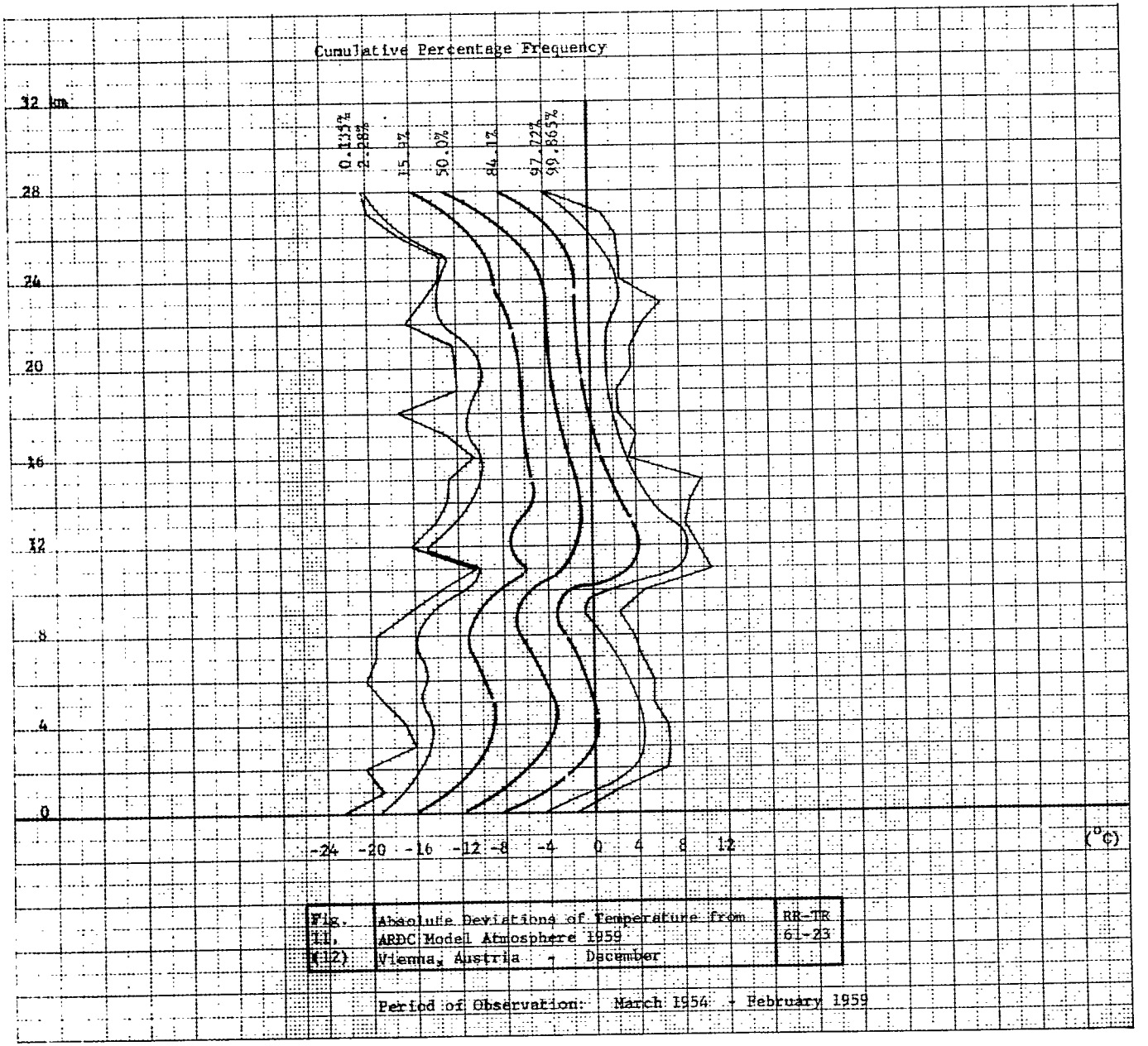

Fig. 11, (12)	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - December	RR-TR 61-23

Period of Observation: March 1954 - February 1959

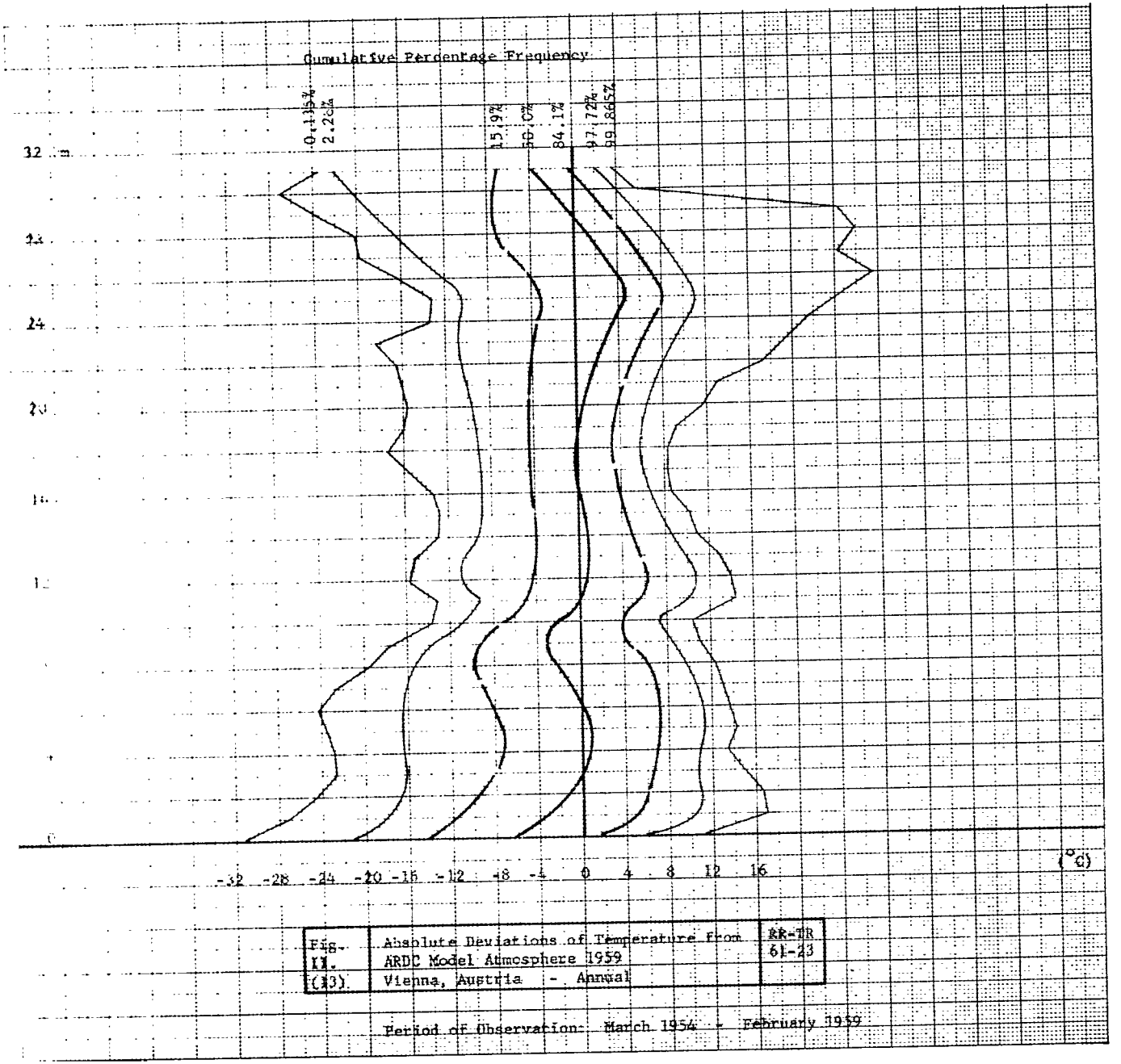

Fig. II. (13).	Absolute Deviations of Temperature from ARDC Model Atmosphere 1959 Vienna, Austria - Annual	RR-TR 61-23

Period of Observation: March 1954 - February 1959

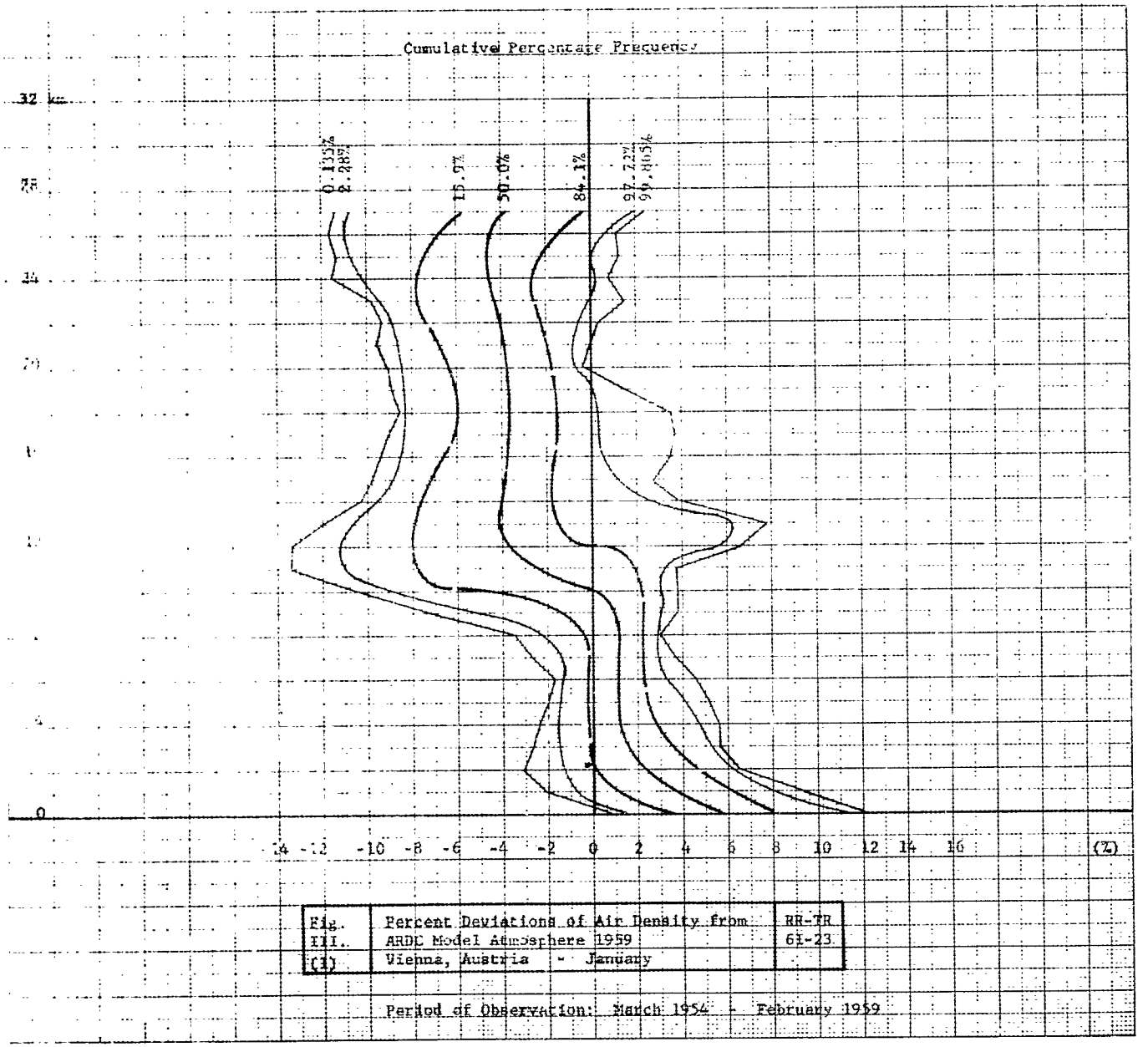

Fig. III. (1)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - January	RR-TR 61-23

Period of Observation: March 1954 - February 1959

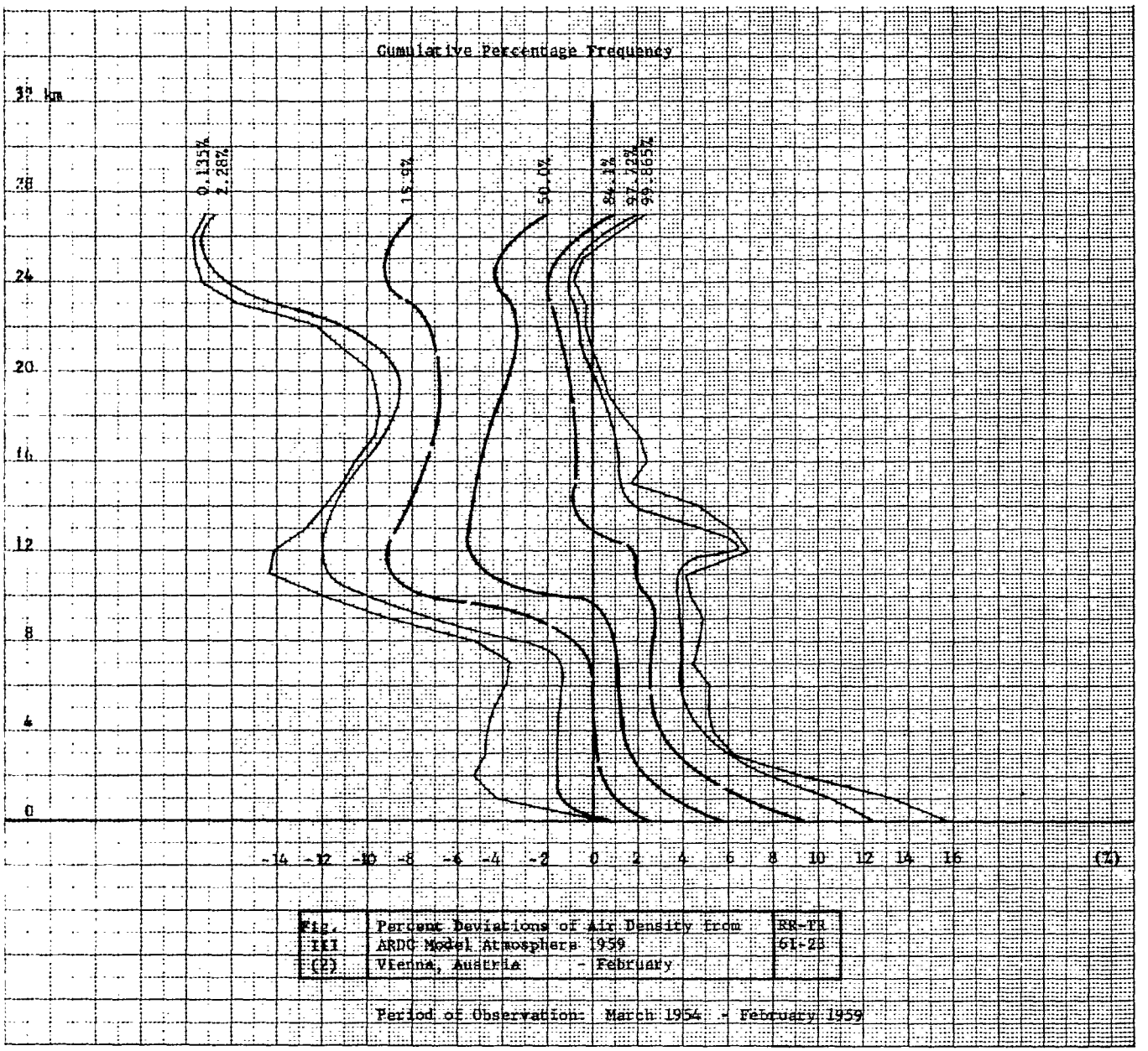

Fig. III (2)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - February	RR-TR 61-23

Period of Observation: March 1954 - February 1959

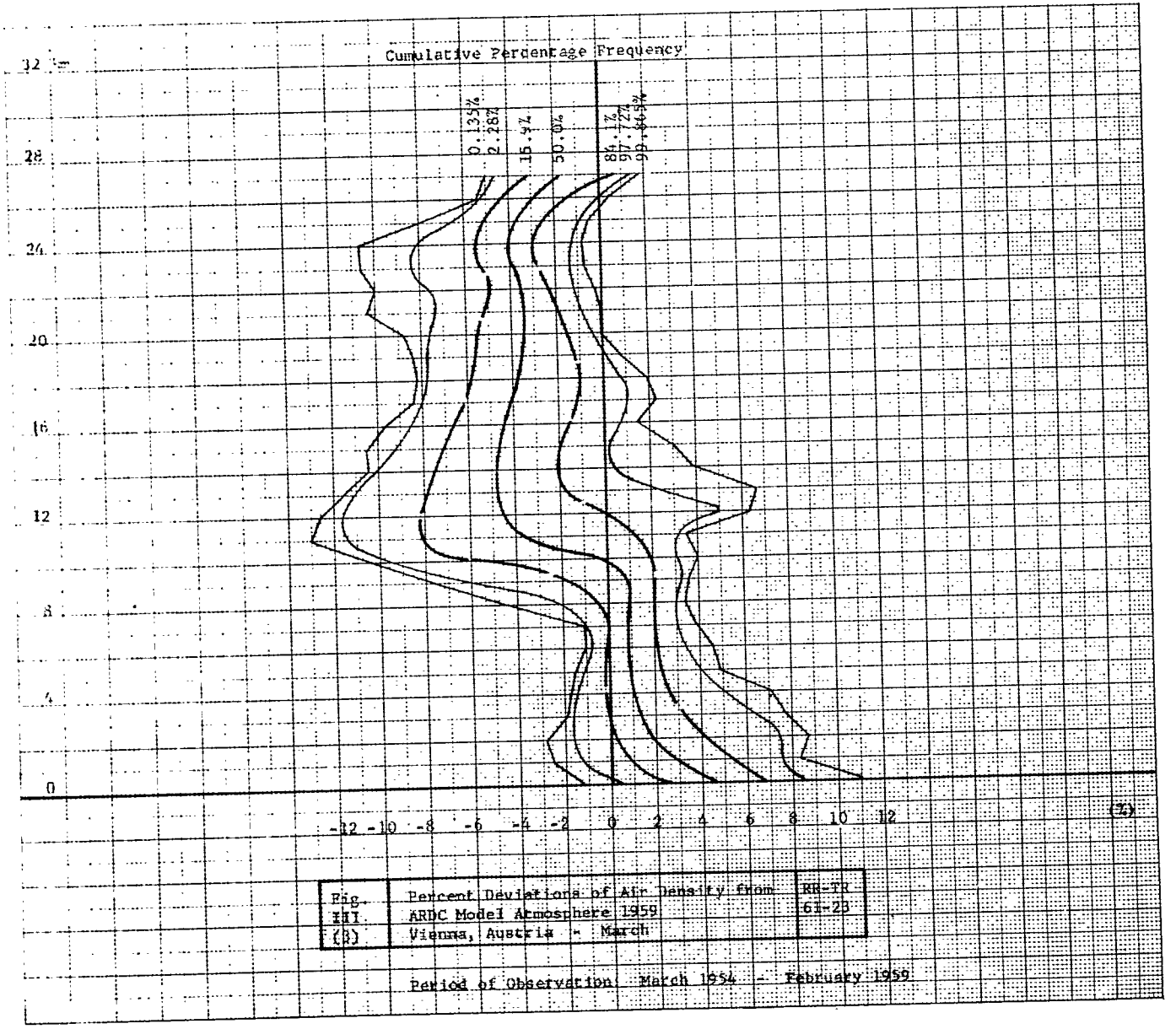

Fig. III (3)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - March	RR-TR 61-23

Period of Observation: March 1954 - February 1959

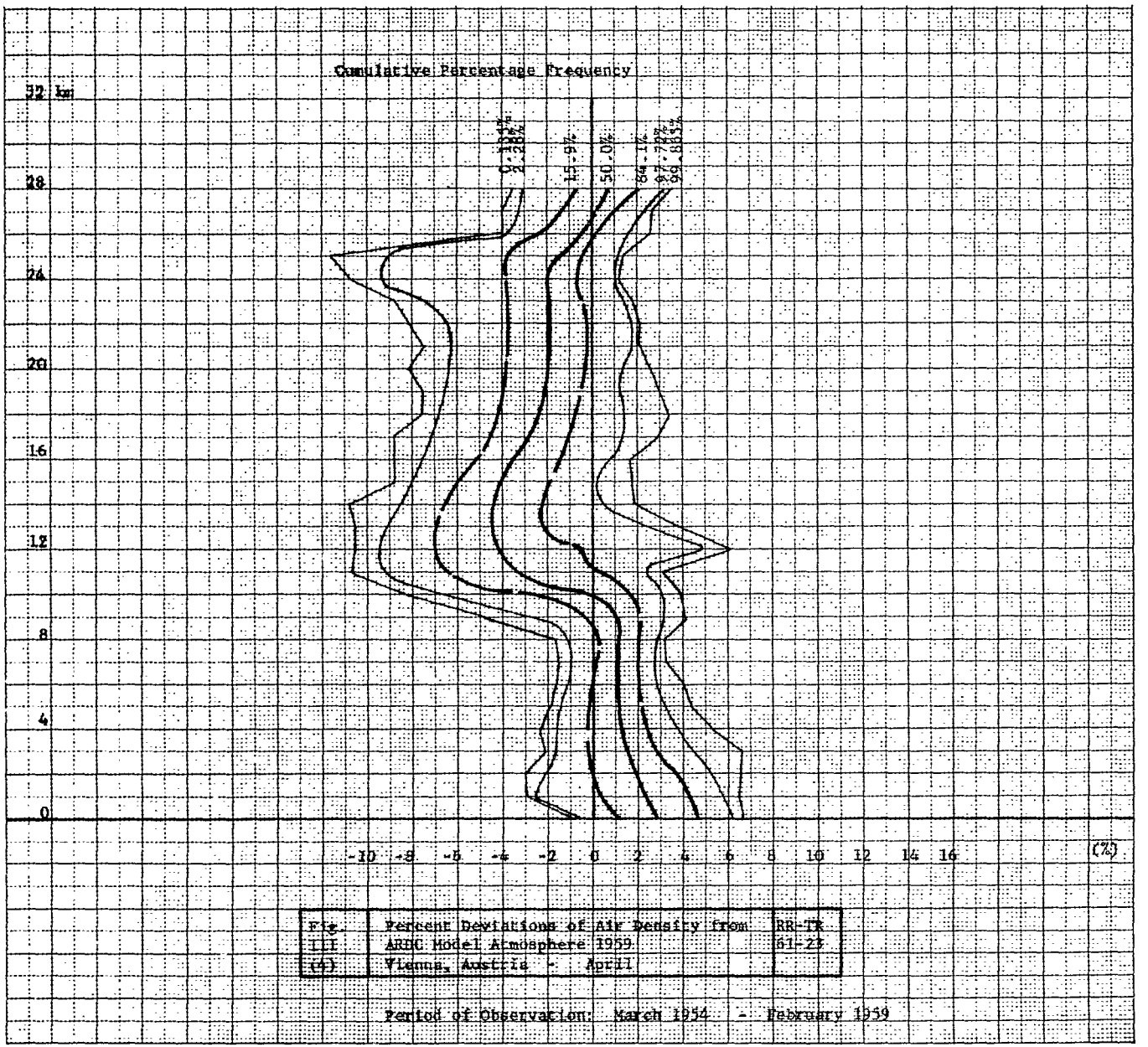

Fig. III (4)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - April	RR-TR 61-23

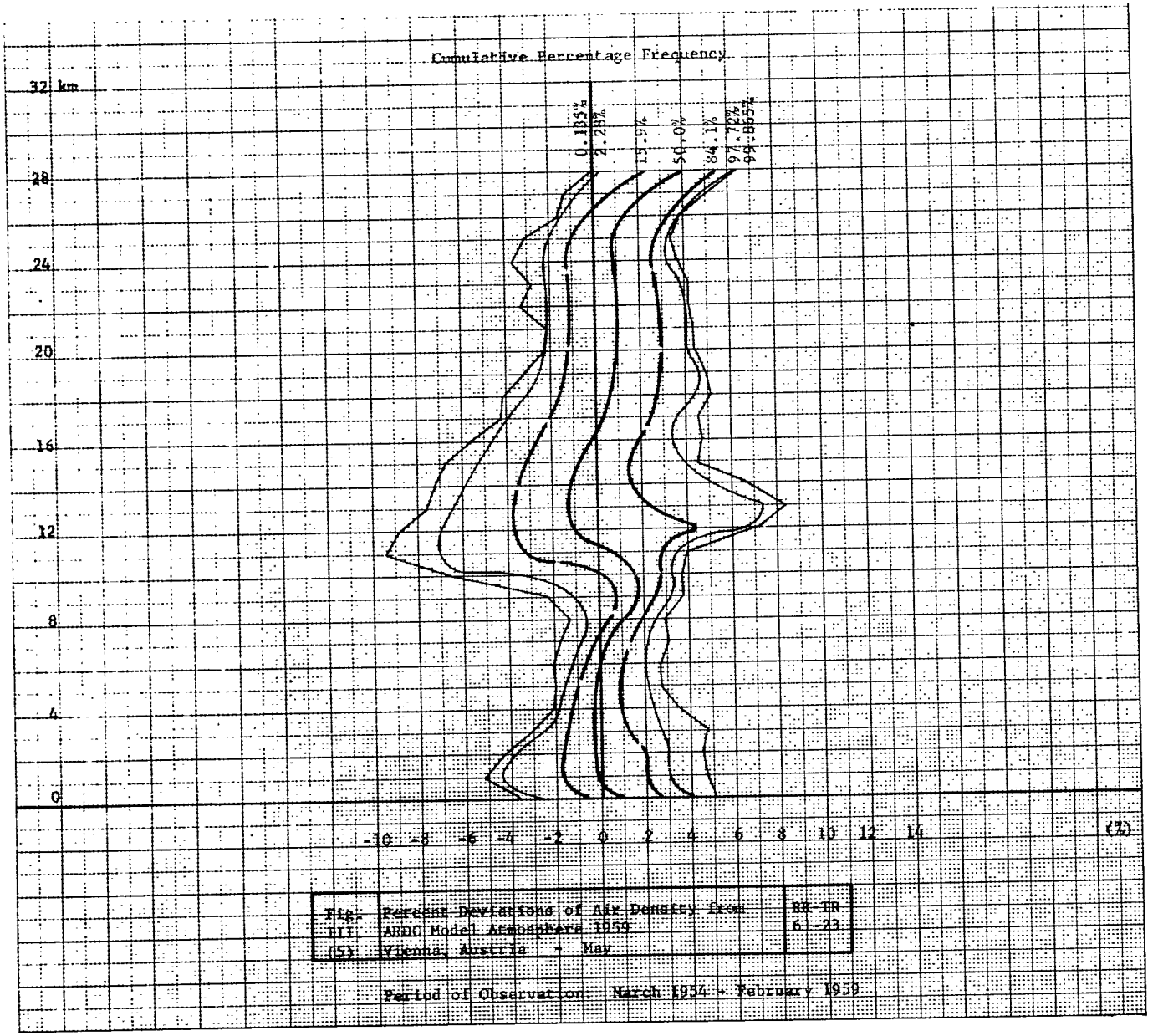

Fig. III. (5)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - May	RR-TR 61-23

Period of Observation: March 1954 - February 1959

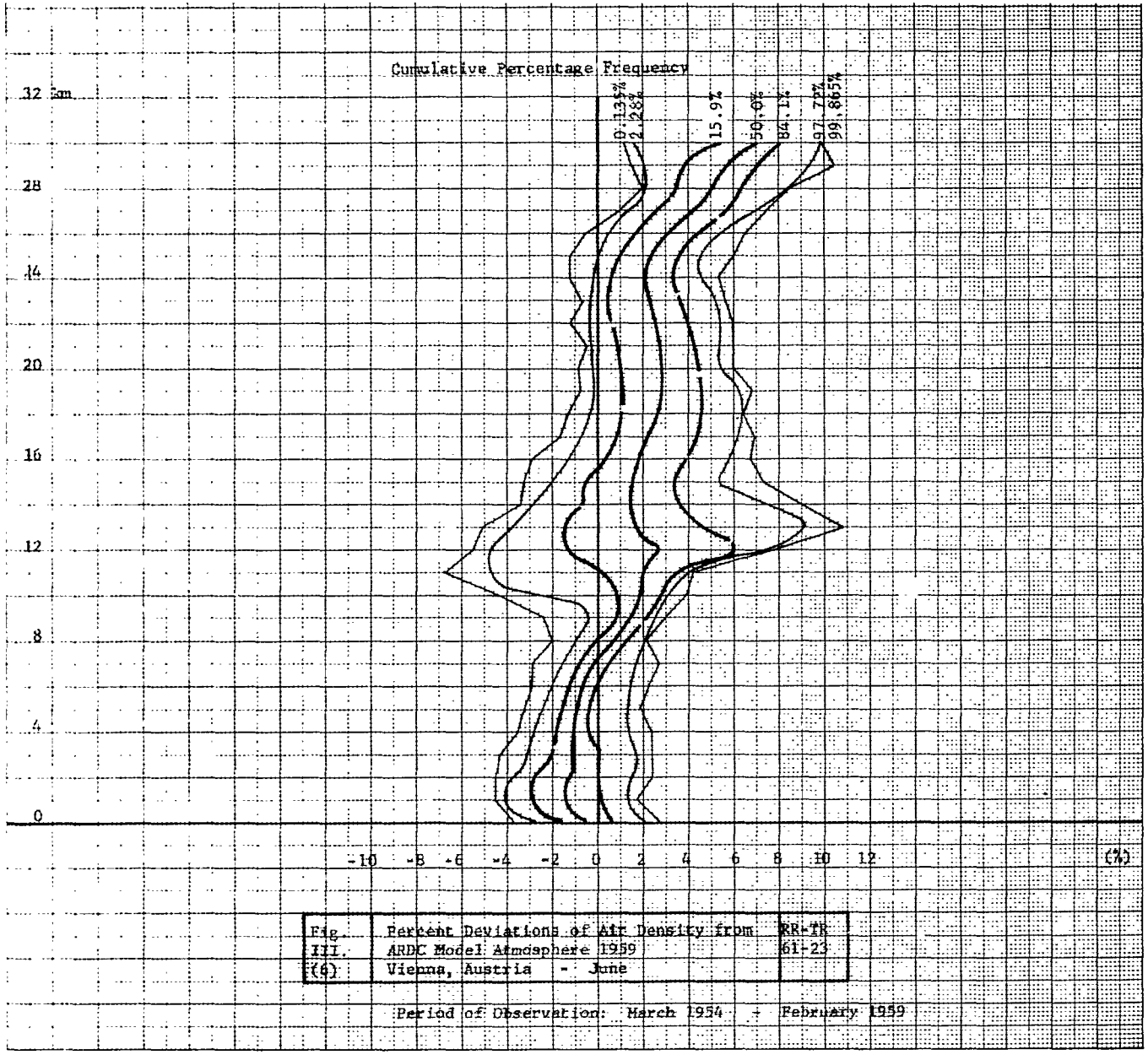

Fig. III. (6)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - June	RR-TR 61-23

Period of Observation: March 1954 - February 1959

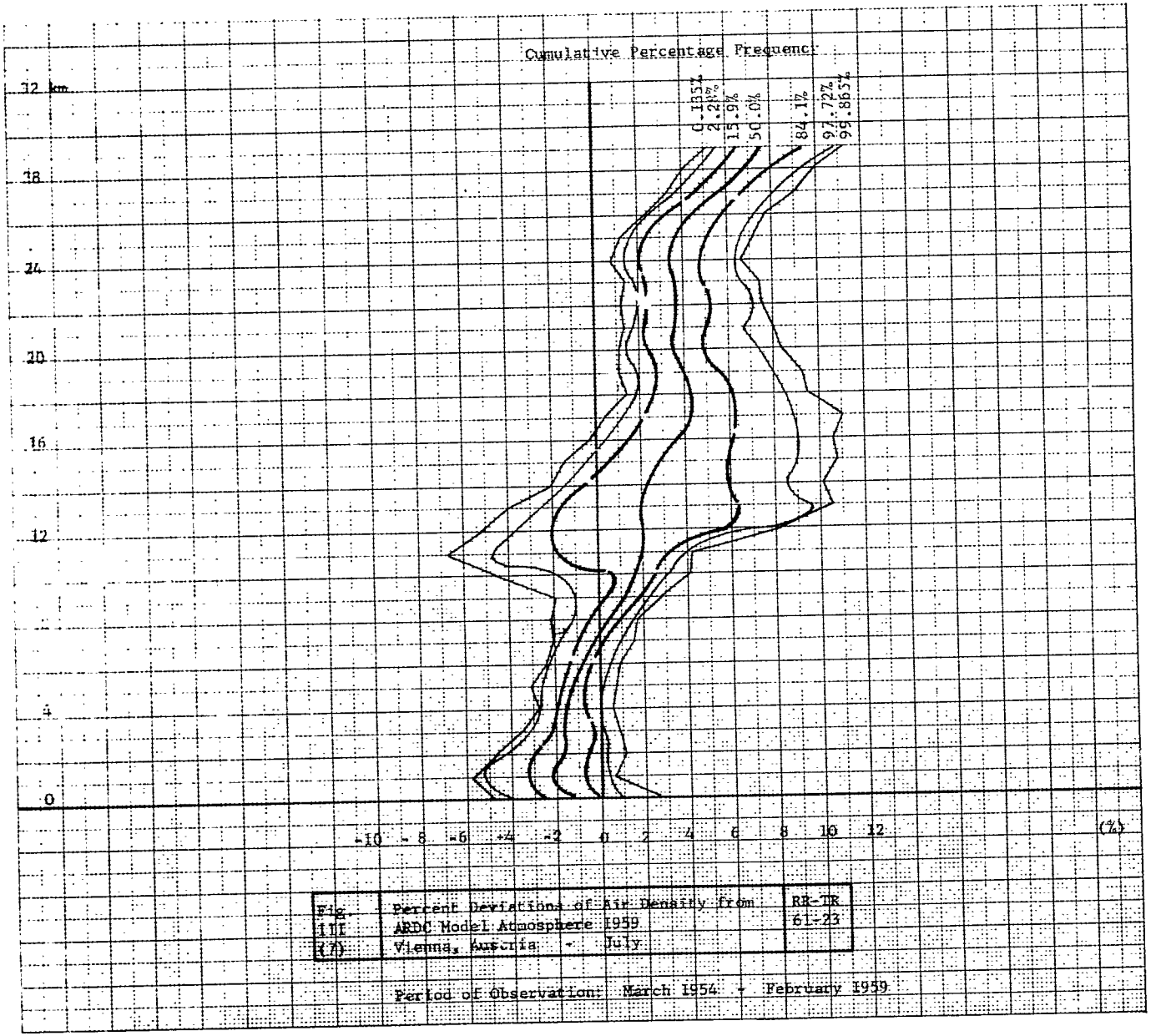

Fig. 11E (7)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - July	RR-TR 61-23

Period of Observation: March 1954 - February 1959

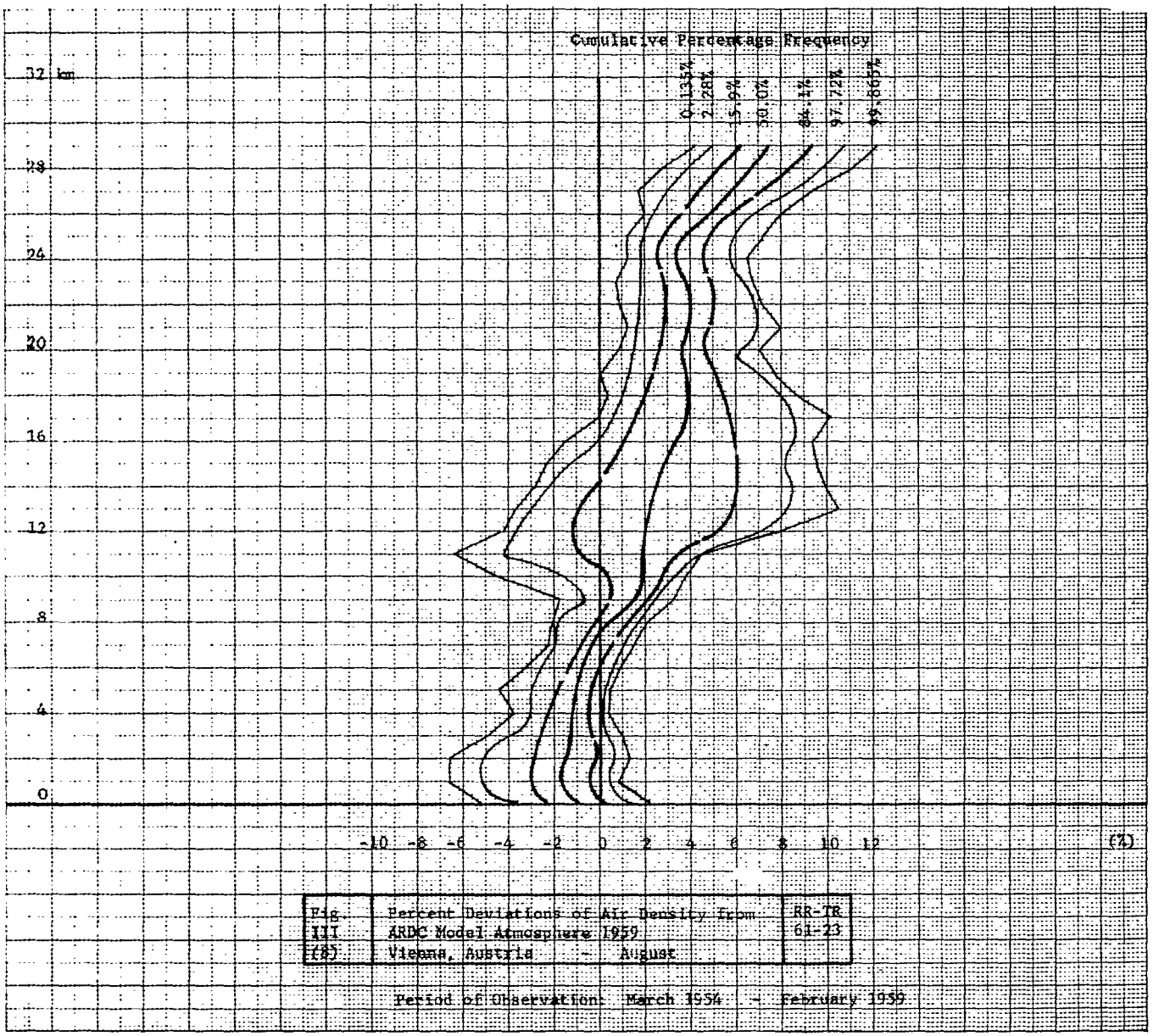

Fig. III (8)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - August	RR-TR 61-23

Period of Observation: March 1954 - February 1959

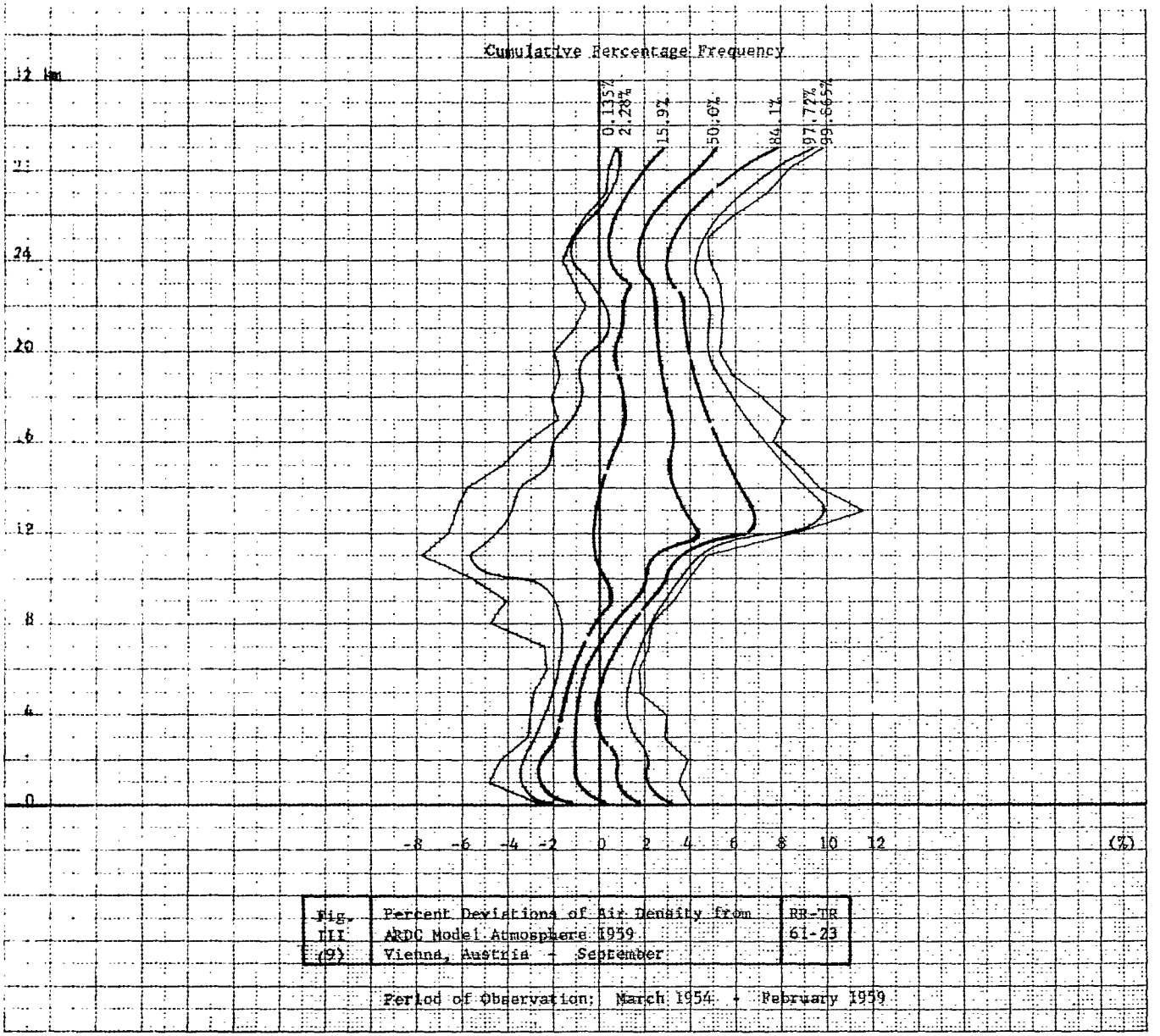

Fig. III (9)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - September	RR-TR 61-23

Period of Observation: March 1954 - February 1959

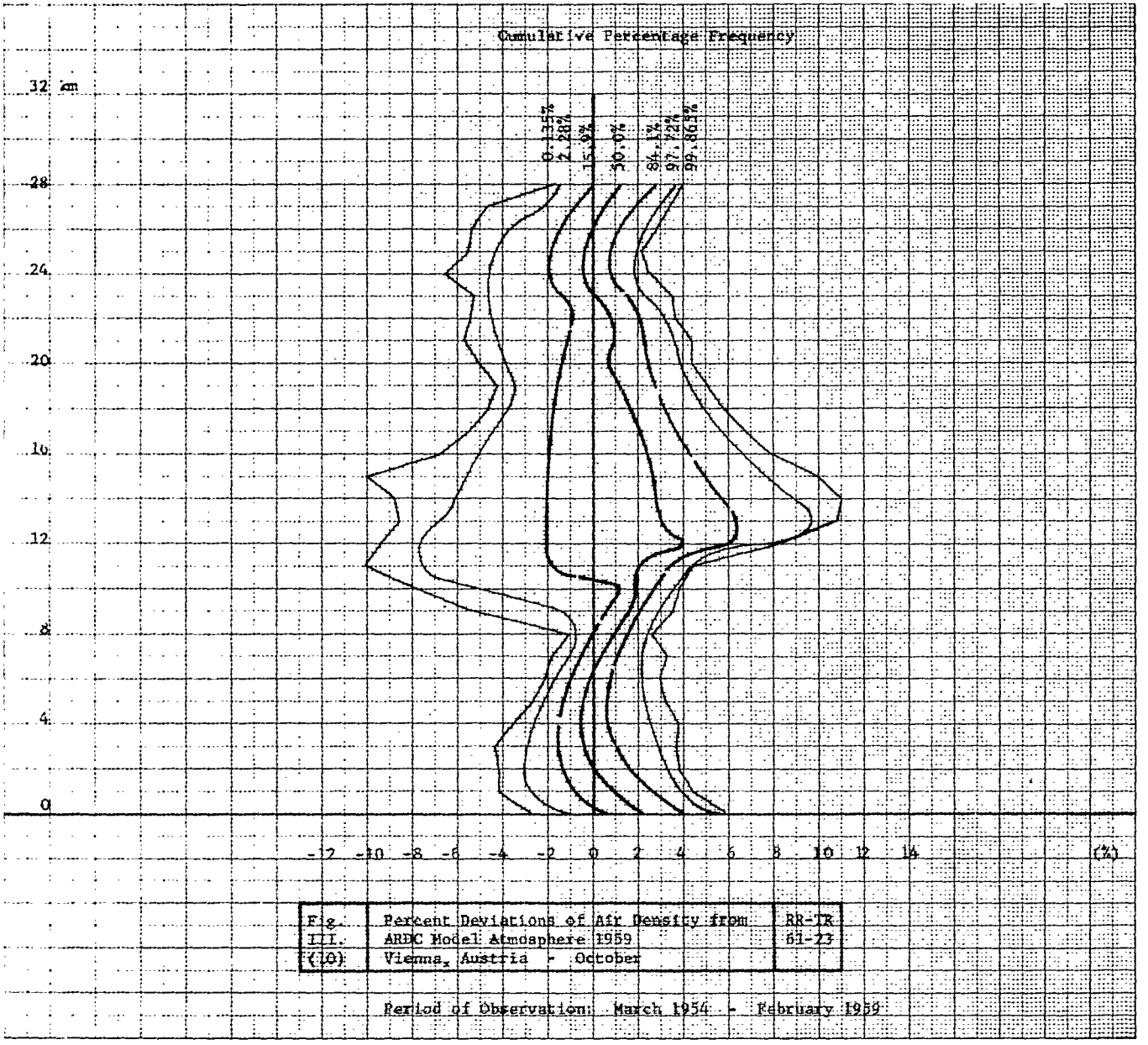

Fig. III. (10)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - October	RR-TR 61-23

Period of Observation: March 1954 - February 1959

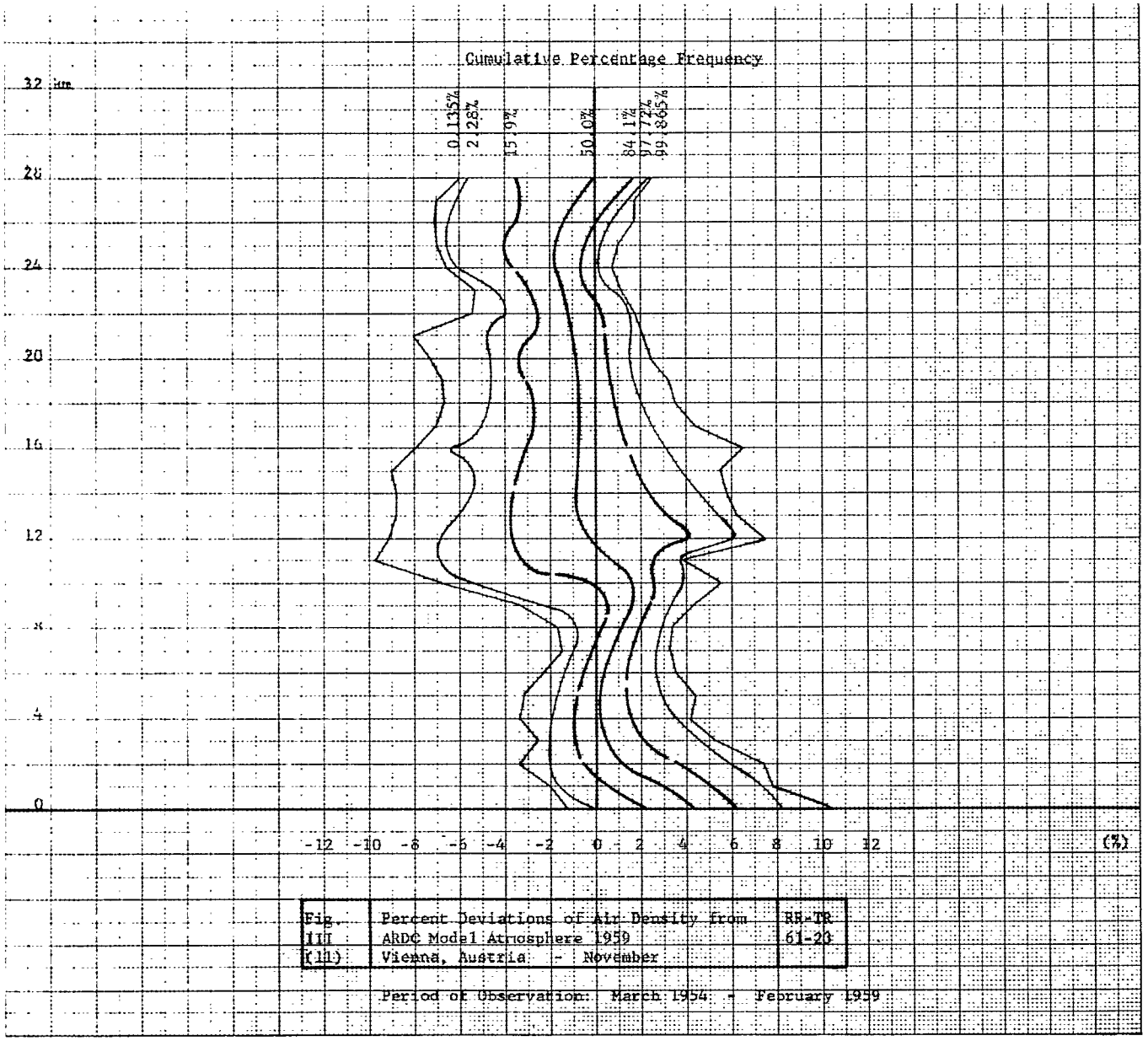

Fig. III (111)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - November	RR-TR 61-20

Period of Observation: March 1954 - February 1959

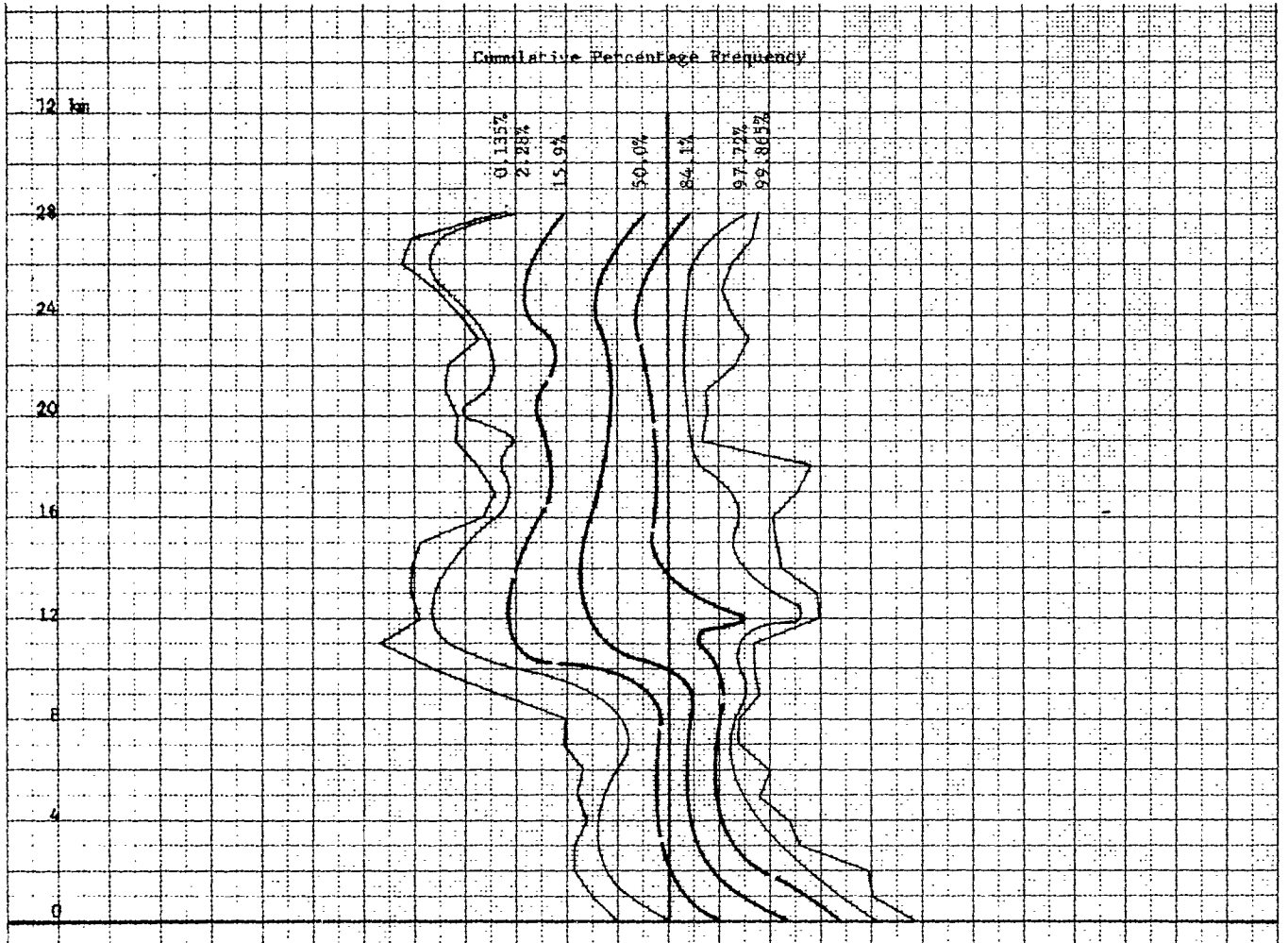

Fig. III. (12)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - December	RR-TR 61-23

Period of Observation: March 1954 - February 1959

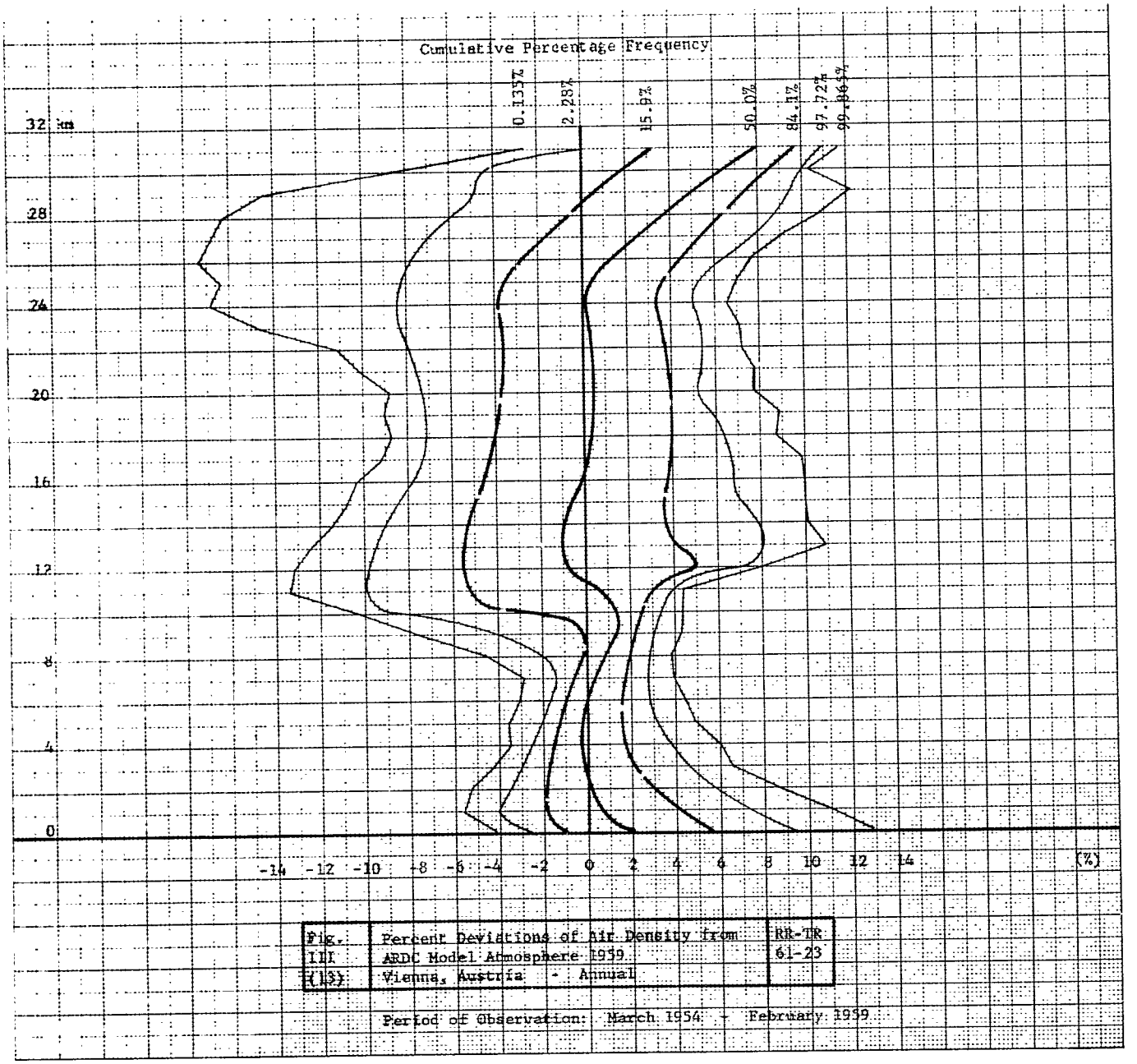

Fig. III (13)	Percent Deviations of Air Density from ARDC Model Atmosphere 1959 Vienna, Austria - Annual	RR-TR 61-23

Period of Observation: March 1954 - February 1959

Table I

Parameters of Station - Vienna, Austria

1 Mar 1954 - 28 Feb 1959:

ϕ = 48°15'N
λ = 16°22'E
Y_o = 200 m

ARDC - Values at Surface:

p = 10,089.4 kp/m^2
T = 286.86 °K
ρ = 0.12254 kpsec^2/m^4

Legend:

ϕ ≙ geographic latitude
λ ≙ geographic longitude
Y_o ≙ elevation of RAOB instrument shelter
p ≙ pressure
T ≙ temperature
ρ ≙ air density

Note: The elevation of station given in Tables IV - VI is in error. The correct elevation is given in this table.

TABLE II

Pressure, Temperature and Air Density
As of ARDC Model Atmosphere 1959

Y (km)	Pressure (mb)	Pressure (kp/m^2)	Temperature (°C)	Temperature (°K)	Air Density (kg m)	Air Density ($kp\ sec^2/m^4$)
0	1013	10,330	+15.0	288.15	1.225	124.9×10^{-3}
1	899	9,160	+ 8.5	281.65	1.112	113.4×10^{-3}
2	795	8,110	+ 2.0	275.15	1.007	102.7×10^{-3}
3	701	7,150	- 4.5	268.65	0.909	92.7×10^{-3}
4	617	6,290	-11.0	262.15	0.819	83.5×10^{-3}
5	540	5,510	-17.5	255.65	0.736	75.1×10^{-3}
6	472	4,810	-23.9	249.25	0.660	67.3×10^{-3}
7	411	4,190	-30.4	242.75	0.5900	60.15×10^{-3}
8	357	3,640	-36.9	236.25	0.5260	53.65×10^{-3}
9	308	3,140	-43.4	229.75	0.4670	47.60×10^{-3}
10	265	2,700	-49.9	223.25	0.4135	42.15×10^{-3}
11	227.0	2,315	-56.4	216.75	0.3650	37.20×10^{-3}
12	194.0	1,980	-56.5	216.65	0.3120	31.80×10^{-3}
13	166.0	1,690	-56.5	216.65	0.2665	27.20×10^{-3}
14	141.5	1,445	-56.5	216.65	0.2280	23.25×10^{-3}
15	121.0	1,235	-56.5	216.65	0.1950	19.90×10^{-3}
16	103.5	1,055	-56.5	216.65	0.1665	17.00×10^{-3}
17	88.5	902	-56.5	216.65	0.1424	14.50×10^{-3}
18	75.7	771	-56.5	216.65	0.1216	12.40×10^{-3}
19	64.7	659	-56.5	216.65	0.1040	10.60×10^{-3}

Table II (Con't)

20	55.3	564	-56.5	216.65	0.0890	9.08×10^{-3}
21	47.25	482.0	-56.5	216.65	0.0760	7.74×10^{-3}
22	40.40	412.0	-56.5	216.65	0.0650	6.62×10^{-3}
23	34.55	352.5	-56.5	216.65	0.0556	5.66×10^{-3}
24	29.55	301.5	-56.5	216.65	0.0476	4.86×10^{-3}
25	25.25	257.5	-56.5	216.65	0.0406	4.14×10^{-3}
26	21.65	220.5	-53.8	219.35	0.0344	3.51×10^{-3}
27	18.55	189.0	-50.8	222.35	0.0291	2.97×10^{-3}
28	15.95	162.5	-47.9	225.25	0.0247	2.52×10^{-3}
29	13.75	140.0	-44.9	228.25	0.0210	2.14×10^{-3}
30	11.85	121.0	-41.9	231.25	0.0179	1.83×10^{-3}
31	10.25	104.5	-38.9	234.25	0.0152	1.55×10^{-3}
32	8.90	90.5	-36.0	237.15	0.0130	1.33×10^{-3}
33	7.70	78.5	-33.0	240.15	0.0112	1.14×10^{-3}
34	6.70	68.5	-30.0	243.15	0.0096	0.98×10^{-3}
35	5.85	59.5	-27.1	246.05	0.0083	0.85×10^{-3}
36	5.10	52.0	-24.1	249.05	0.0071	0.72×10^{-3}
37	4.45	45.5	-21.1	252.05	0.0062	0.63×10^{-3}
38	3.90	39.5	-18.2	254.95	0.0053	0.54×10^{-3}
39	3.40	35.0	-15.2	257.95	0.0046	0.47×10^{-3}
40	3.00	30.5	-12.2	260.95	0.0040	0.41×10^{-3}

Table III

Number of Ascents - Vienna, Austria

	1954	1955	1956	1957	1958	1959	Total
Jan	-	31	31	31	31	31	155
Feb	-	28	29	28	28	28	141
Mar	31	31	31	31	31	-	155
Apr	30	30	30	30	30	-	150
May	31	31	31	31	31	-	155
Jun	30	30	30	30	30	-	150
Jul	31	31	31	31	31	-	155
Aug	31	31	31	31	31	-	155
Sep	30	30	30	30	30	-	150
Oct	31	31	31	31	31	-	155
Nov	30	30	30	30	30	-	150
Dec	31	31	31	31	31	-	155
Total	306	365	366	365	365	59	1826

Table IV (1)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria — **Period of Observation:** March 1954 - February 1959

JANUARY — **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	9820.	-2.67	-2.68	-1.88	-0.79	0.59
1000.	155.	8900.	-2.84	-2.95	-2.18	-1.09	0.11
2000.	155.	7860.	-3.08	-3.21	-2.59	-1.73	-0.37
3000.	155.	6890.	-3.64	-3.78	-3.08	-2.10	-0.70
4000.	155.	6030.	-4.13	-4.29	-3.66	-2.54	-1.11
5000.	155.	5240.	-4.90	-5.08	-4.72	-3.27	-1.27
6000.	155.	4520.	-6.03	-6.24	-5.41	-3.74	-1.66
7000.	155.	3870.	-7.64	-7.88	-6.68	-4.30	-1.91
8000.	155.	3330.	-8.52	-8.79	-7.97	-5.22	-2.75
9000.	155.	2860.	-9.32	-9.24	-8.28	-5.73	-2.87
10000.	155.	2450.	-9.26	-9.63	-8.52	-6.30	-3.70
11000.	155.	2100.	-9.29	-9.50	-8.64	-6.91	-4.32
12000.	155.	1800.	-9.09	-9.34	-8.08	-6.82	-4.55
13000.	155.	1535.	-9.17	-9.47	-7.99	-6.80	-4.44
14000.	155.	1310.	-9.34	-9.69	-8.30	-6.57	-4.50
15000.	155.	1115.	-9.72	-10.12	-8.91	-6.88	-4.45
16000.	147.	945.	-10.43	-10.90	-8.06	-6.64	-4.74
17000.	147.	798.	-11.53	-11.64	-8.43	-6.76	-4.77
18000.	146.	674.	-12.58	-12.71	-8.95	-6.74	-5.06
19000.	146.	568.	-13.61	-13.96	-9.86	-6.98	-5.16
20000.	140.	479.	-15.07	-15.07	-11.35	-7.27	-5.50
21000.	114.	404.	-16.18	-16.18	-11.93	-7.26	-5.19
22000.	106.	361.	-12.38	-12.50	-10.19	-7.16	-5.34
23000.	94.	306.	-13.19	-13.33	-10.76	-7.38	-4.96
24000.	80.	260.	-13.78	-13.93	-9.78	-7.46	-5.31
25000.	65.	221.	-14.17	-14.37	-10.49	-7.77	-4.47
26000.	51.	197.	-10.66	-10.88	-10.20	-7.71	-4.31
27000.	36.	169.	-10.58	-10.85	-10.58	-7.41	-3.44

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGNC (ARMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (1)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria	Period of Observation: March 1954 - February 1959
JANUARY	Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	89.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MEAN PRESSURE	RELATIVE DENSITY
5.	155.	1.09	1.56	2.09	2.56	1050.	2.59
1000.	155.	0.55	1.09	1.75	2.07	950.	2.07
2000.	155.	0.12	0.62	1.23	1.48	850.	1.45
3000.	155.	-0.14	0.42	1.12	1.54	760.	1.54
4000.	155.	-0.32	0.16	0.95	1.59	650.	1.59
5000.	155.	-0.54	0.18	1.27	1.81	560.	1.81
6000.	155.	-0.83	0.00	1.25	1.87	490.	1.87
7000.	155.	-1.19	-0.24	1.19	1.91	420.	1.91
8000.	155.	-1.65	-0.55	1.10	1.65	370.	1.65
9000.	155.	-2.23	-0.96	0.96	1.59	310.	1.59
10000.	155.	-2.59	-1.48	0.74	1.48	270.	1.46
11000.	155.	-3.24	-1.51	0.43	1.30	235.	1.30
12000.	155.	-3.54	-2.27	0.00	1.01	200.	1.01
13000.	155.	-3.55	-2.37	-0.89	0.30	165.	0.30
14000.	155.	-3.81	-2.77	-1.04	0.00	145.	0.00
15000.	155.	-3.64	-2.43	-1.21	0.00	125.	0.00
16000.	147.	-3.79	-2.84	-0.95	0.00	105.	0.00
17000.	147.	-3.88	-2.66	-0.78	-0.44	88.	-0.44
18000.	146.	-4.15	-2.85	-0.35	-0.39	76.	-0.39
19000.	146.	-4.40	-2.73	-0.61	0.15	66.	0.15
20000.	140.	-4.61	-2.48	-0.35	0.71	56.	0.71
21000.	114.	-3.84	-1.87	0.10	1.76	48.	1.76
22000.	106.	-4.00	-1.58	0.73	2.55	42.	2.55
23000.	94.	-3.83	-1.42	2.13	3.55	35.	3.55
24000.	80.	-3.15	-0.50	3.48	4.81	30.	4.81
25000.	65.	-2.14	0.39	5.05	6.60	25.	6.60
26000.	51.	-2.27	1.13	6.58	7.71	23.	7.71
27000.	36.	-1.59	2.12	8.73	8.99	20.	8.99

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ARDA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (2)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

FEBRUARY

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	141.	9640.	-4.45	-4.46	-1.99	-0.90	0.29
1000.	141.	8740.	-4.59	-4.69	-2.18	-1.31	-0.22
2000.	141.	7730.	-4.69	-4.81	-3.33	-1.97	-0.86
3000.	141.	6820.	-4.62	-4.76	-4.06	-2.66	-1.26
4000.	141.	5970.	-5.09	-5.25	-4.77	-3.34	-1.75
5000.	141.	5170.	-6.17	-6.35	-5.63	-3.99	-2.18
6000.	141.	4460.	-7.28	-7.48	-6.65	-4.57	-2.49
7000.	141.	3820.	-8.83	-9.07	-7.88	-5.49	-2.86
8000.	141.	3270.	-10.16	-10.44	-9.07	-6.59	-3.85
9000.	140.	2810.	-10.51	-10.83	-9.24	-7.32	-4.46
10000.	140.	2420.	-10.37	-10.74	-9.63	-7.76	-4.81
11000.	140.	2075.	-10.37	-10.58	-9.72	-7.99	-5.40
12000.	140.	1790.	-9.60	-9.85	-9.34	-7.58	-5.56
13000.	140.	1535.	-9.17	-9.47	-8.88	-7.40	-5.33
14000.	140.	1315.	-9.00	-9.34	-8.65	-7.61	-5.54
15000.	140.	1125.	-8.91	-9.31	-8.91	-7.69	-4.86
16000.	140.	960.	-9.00	-9.48	-9.00	-7.11	-5.21
17000.	140.	812.	-9.98	-10.09	-9.42	-7.21	-4.99
18000.	140.	691.	-10.38	-10.51	-10.25	-7.13	-5.32
19000.	140.	585.	-11.23	-11.38	-10.93	-7.28	-5.61
20000.	133.	498.	-11.79	-11.79	-11.61	-7.45	-5.67
21000.	103.	422.	-12.45	-12.55	-12.14	-7.86	-5.39
22000.	91.	358.	-13.11	-13.23	-12.14	-8.01	-4.85
23000.	78.	310.	-12.06	-12.20	-11.06	-7.66	-4.68
24000.	67.	266.	-11.77	-11.94	-11.44	-7.96	-4.31
25000.	57.	227.	-11.84	-12.04	-11.26	-6.16	-3.69
26000.	51.	194.	-12.24	-12.47	-12.24	-7.26	-3.40
27000.	33.	173.	-8.47	-8.73	-8.47	-6.06	-2.38

Note: When less than 30 observations were available, frequency distribution data were excluded.

Table IV (2)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria	Period of Observation: March 1954 - February 1959
FEBRUARY	Percent Deviation from AMRC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAJOR PRESSURE	RELATIVE DEVIATION
5.	141.	0.90	1.79	2.88	3.18	10410.	3.18
1000.	141.	0.44	1.42	2.51	2.73	9410.	2.73
2000.	141.	-0.12	1.11	2.10	2.59	8410.	2.59
3000.	141.	-0.42	1.12	1.96	2.66	7410.	2.66
4000.	141.	-0.79	0.95	1.91	2.54	6450.	2.54
5000.	141.	-1.09	0.91	2.18	2.72	5610.	2.72
6000.	141.	-1.25	0.62	2.49	2.70	4940.	2.70
7000.	141.	-1.67	0.24	2.15	2.39	4290.	2.39
8000.	141.	-2.20	0.00	1.92	2.47	3730.	2.47
9000.	140.	-2.23	-0.32	1.91	2.55	3210.	2.55
10000.	140.	-2.96	-0.74	1.85	2.22	2760.	2.22
11000.	140.	-3.24	-1.08	1.73	2.38	2370.	2.38
12000.	140.	-3.54	-1.52	1.26	2.02	2020.	2.02
13000.	140.	-3.55	-1.78	0.59	1.18	1710.	1.18
14000.	140.	-3.46	-2.08	0.00	0.69	1455.	0.69
15000.	140.	-3.24	-2.02	0.00	0.40	1240.	0.40
16000.	140.	-3.32	-1.90	-0.47	0.00	1055.	0.00
17000.	140.	-3.44	-2.22	-0.55	0.00	902.	0.00
18000.	140.	-3.76	-2.08	-0.52	-0.13	770.	-0.13
19000.	140.	-3.95	-2.12	-0.61	0.00	659.	0.00
20000.	133.	-4.08	-2.13	-0.71	0.00	564.	0.00
21000.	103.	-3.84	-1.76	-0.41	0.41	484.	0.41
22000.	91.	-3.52	-1.70	-0.36	0.85	416.	0.85
23000.	78.	-2.84	-1.70	-0.14	1.70	359.	1.70
24000.	67.	-2.65	-1.66	0.00	2.49	309.	2.49
25000.	57.	-2.33	-1.17	0.00	0.19	266.	0.19
26000.	51.	-2.27	-1.13	0.23	0.45	222.	0.45
27000.	33.	-1.85	-0.79	0.26	0.53	190.	0.53

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGNC (AFSWC) Form 600-1, 27 Sep 61 (One-Time)

Table IV (3)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

MARCH

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	9860.	-2.27	-2.28	-1.28	-0.49	0.30
1000.	155.	8940.	-2.40	-2.51	-1.75	-0.76	0.00
2000.	155.	7880.	-2.84	-2.96	-2.47	-1.36	-0.37
3000.	155.	6910.	-3.36	-3.50	-2.80	-1.82	-0.70
4000.	155.	6050.	-3.82	-3.97	-3.66	-2.38	-1.11
5000.	155.	5250.	-4.72	-4.90	-4.72	-3.09	-1.27
6000.	155.	4520.	-6.03	-6.24	-5.61	-3.53	-1.66
7000.	155.	3870.	-7.64	-7.88	-6.68	-4.30	-2.15
8000.	155.	3320.	-8.79	-9.07	-7.97	-5.22	-2.75
9000.	155.	2860.	-8.92	-9.24	-8.28	-5.73	-3.18
10000.	155.	2450.	-9.26	-9.63	-8.52	-6.30	-3.70
11000.	155.	2100.	-9.29	-9.50	-8.86	-6.46	-3.89
12000.	155.	1805.	-8.84	-9.09	-8.33	-6.31	-4.55
13000.	155.	1545.	-8.58	-8.88	-7.99	-5.92	-4.44
14000.	155.	1320.	-8.65	-9.00	-7.96	-5.88	-4.15
15000.	155.	1125.	-8.91	-9.31	-8.50	-6.07	-4.05
16000.	131.	965.	-8.53	-9.00	-8.06	-5.69	-3.79
17000.	123.	822.	-8.87	-8.98	-8.31	-5.54	-3.55
18000.	123.	702.	-8.95	-9.08	-8.43	-5.58	-3.50
19000.	123.	599.	-9.10	-9.26	-8.65	-5.77	-3.64
20000.	121.	510.	-9.57	-9.75	-8.69	-5.85	-3.90
21000.	93.	439.	-8.92	-9.02	-7.88	-5.50	-3.53
22000.	89.	377.	-8.62	-8.74	-8.01	-5.70	-3.52
23000.	77.	323.	-8.51	-8.65	-8.23	-5.62	-3.26
24000.	66.	276.	-8.46	-8.62	-8.13	-5.80	-2.82
25000.	50.	234.	-9.13	-9.32	-8.74	-5.24	-1.75
26000.	40.	199.	-9.98	-10.20	-9.98	-4.31	-1.13
27000.	30.	180.	-4.76	-5.03	-4.76	-1.85	-0.79

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (3)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

MARCH

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM PRESSURE	RELATIVE DEVIATION
5.	155.	0.60	0.99	1.88	1.99	1020.	1.99
1000.	155.	0.33	0.55	1.31	1.53	900.	1.53
2000.	155.	-0.12	0.25	0.86	1.23	810.	1.23
3000.	155.	-0.28	0.14	0.84	1.26	740.	1.26
4000.	155.	-0.64	-0.16	0.79	1.43	680.	1.43
5000.	155.	-0.73	0.00	0.91	2.00	620.	2.00
6000.	155.	-1.04	-0.21	1.04	2.29	490.	2.29
7000.	155.	-1.43	-0.48	0.95	2.15	428.	2.15
8000.	155.	-1.92	-0.82	0.82	1.92	370.	1.92
9000.	155.	-2.23	-0.96	0.64	1.91	320.	1.91
10000.	155.	-2.96	-1.48	0.00	1.85	275.	1.85
11000.	155.	-3.24	-2.16	-0.22	1.51	235.	1.51
12000.	155.	-3.54	-2.53	-0.76	1.26	200.	1.26
13000.	155.	-3.25	-2.66	-1.48	0.59	170.	0.59
14000.	155.	-3.46	-2.42	-1.38	-0.35	144.	-0.35
15000.	155.	-3.24	-2.43	-1.62	-0.81	122.	-0.81
16000.	131.	-2.84	-2.37	-1.42	-0.95	104.	-0.95
17000.	123.	-2.88	-2.22	-1.33	-1.11	89.	-1.11
18000.	123.	-2.98	-2.20	-1.04	-0.65	76.	-0.65
19000.	123.	-2.88	-2.12	-0.76	-0.30	65.	-0.30
20000.	121.	-2.66	-1.95	-0.71	-0.18	56.	-0.18
21000.	93.	-2.39	-1.66	-0.31	0.10	48.	0.10
22000.	89.	-2.06	-1.21	-0.24	0.36	41.	0.36
23000.	77.	-1.99	-1.13	0.00	0.43	35.	0.43
24000.	66.	-1.66	-0.50	0.50	0.66	30.	0.66
25000.	50.	-0.97	-0.39	0.58	1.36	26.	1.36
26000.	40.	-0.68	0.00	2.04	2.27	22.	2.27
27000.	30.	-0.26	0.26	2.91	3.17	19.	3.17

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (4)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

APRIL

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	9920.	-1.68	-1.69	-1.28	-0.40	0.40
1000.	150.	9000.	-1.75	-1.86	-1.42	-0.55	0.11
2000.	150.	7920.	-2.34	-2.47	-1.73	-0.66	-0.25
3000.	150.	6940.	-2.94	-3.08	-1.96	-1.26	-0.56
4000.	150.	6070.	-3.50	-3.66	-2.70	-1.59	-0.79
5000.	150.	5270.	-4.36	-4.54	-3.45	-2.00	-0.91
6000.	150.	4560.	-5.20	-5.41	-4.16	-2.49	-1.25
7000.	150.	3920.	-6.44	-6.68	-5.01	-3.10	-1.67
8000.	150.	3350.	-7.97	-8.24	-6.32	-3.85	-2.20
9000.	150.	2880.	-8.28	-8.60	-6.69	-4.46	-2.55
10000.	150.	2460.	-8.69	-9.26	-7.04	-5.19	-2.96
11000.	150.	2110.	-8.86	-9.07	-7.34	-5.40	-3.24
12000.	150.	1810.	-8.59	-8.84	-7.32	-5.30	-3.54
13000.	150.	1550.	-8.28	-8.58	-7.10	-4.73	-3.25
14000.	150.	1330.	-7.96	-8.30	-6.57	-4.64	-3.11
15000.	150.	1140.	-7.69	-8.10	-6.88	-4.45	-2.83
16000.	136.	975.	-7.58	-8.06	-7.11	-3.79	-2.37
17000.	129.	832.	-7.76	-7.87	-7.54	-3.88	-2.22
18000.	124.	709.	-8.04	-8.17	-7.52	-3.76	-1.95
19000.	122.	602.	-8.65	-8.80	-7.89	-3.79	-1.82
20000.	122.	511.	-9.40	-9.57	-8.69	-4.26	-1.95
21000.	83.	437.	-9.34	-9.44	-8.09	-3.63	-1.04
22000.	80.	371.	-9.95	-10.07	-7.04	-3.64	-0.85
23000.	71.	315.	-10.64	-10.78	-6.81	-3.69	-0.43
24000.	61.	269.	-10.95	-11.11	-6.80	-3.81	-0.33
25000.	48.	230.	-10.68	-10.87	-6.41	-1.75	0.19
26000.	38.	210.	-4.76	-4.99	-4.76	-0.68	0.45
27000.	35.	180.	-4.76	-5.03	-4.76	-0.79	0.53
28000.	32.	154.	-5.23	-5.54	-5.23	-0.92	0.31

Note: When less than 30 observations were available, frequency distribution data were excluded.

AOMC (ARMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (4)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

APRIL

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM PRESSURE	RELATIVE DEVIATION
5.	150.	0.69	0.90	1.39	1.59	1010.	1.59
1000.	150.	0.44	0.66	1.20	1.42	920.	1.42
2000.	150.	0.00	0.37	1.11	1.36	820.	1.36
3000.	150.	-0.14	0.28	1.26	1.54	720.	1.54
4000.	150.	-0.48	0.00	1.11	1.75	640.	1.75
5000.	150.	-0.36	0.00	1.09	2.18	563.	2.18
6000.	150.	-0.62	-0.21	1.04	2.49	493.	2.49
7000.	150.	-0.95	-0.24	1.19	2.39	429.	2.39
8000.	150.	-1.37	-0.82	0.82	2.20	372.	2.20
9000.	150.	-1.91	-0.96	0.96	2.55	322.	2.55
10000.	150.	-2.22	-1.11	0.74	2.22	276.	2.22
11000.	150.	-2.59	-1.30	0.43	2.16	236.	2.16
12000.	150.	-2.78	-1.52	0.25	1.77	201.	1.77
13000.	150.	-2.37	-1.48	0.59	1.48	171.	1.48
14000.	150.	-2.42	-1.04	0.69	1.38	146.	1.38
15000.	150.	-2.02	-0.81	0.81	1.21	125.	1.21
16000.	136.	-1.90	-0.95	0.95	1.42	107.	1.42
17000.	129.	-1.33	-0.33	1.22	1.66	91.	1.66
18000.	124.	-1.04	-0.13	1.30	1.69	78.	1.69
19000.	122.	-0.91	0.00	1.37	1.97	67.	1.97
20000.	122.	-1.06	0.00	1.24	1.95	57.	1.95
21000.	83.	-0.31	0.31	1.56	1.97	49.	1.97
22000.	80.	-0.24	0.49	1.70	1.94	42.	1.94
23000.	71.	0.00	0.85	1.84	1.99	36.	1.99
24000.	61.	0.17	1.00	2.16	2.49	30.	2.49
25000.	48.	0.78	1.55	2.72	3.11	26.	3.11
26000.	38.	1.13	1.81	3.17	3.40	22.	3.40
27000.	35.	1.06	1.85	3.70	3.70	19.	3.70
28000.	32.	0.92	1.85	3.08	3.69	16.	3.69

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (5)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

MAY

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	9950.	-1.38	-1.39	-0.99	-0.20	0.39
1000.	155.	9040.	-1.31	-1.42	-0.87	-0.11	0.44
2000.	155.	8000.	-1.36	-1.48	-1.23	-0.25	0.37
3000.	155.	7030.	-1.68	-1.82	-1.26	-0.28	0.42
4000.	155.	6150.	-2.23	-2.38	-1.59	-0.64	0.32
5000.	155.	5350.	-2.90	-3.09	-2.00	-0.54	0.54
6000.	155.	4650.	-3.33	-3.53	-2.29	-0.62	0.62
7000.	155.	4030.	-3.82	-4.06	-2.63	-0.95	0.72
8000.	155.	3480.	-4.40	-4.67	-3.30	-1.10	0.27
9000.	155.	2990.	-4.78	-5.10	-3.50	-1.59	0.32
10000.	155.	2570.	-4.81	-5.19	-4.07	-1.85	0.00
11000.	155.	2210.	-4.54	-4.75	-3.67	-1.94	0.00
12000.	155.	1900.	-4.04	-4.29	-3.54	-1.77	0.00
13000.	155.	1635.	-3.25	-3.55	-3.25	-1.79	0.30
14000.	155.	1405.	-2.77	-3.11	-2.77	-1.38	0.35
15000.	155.	1205.	-2.43	-2.83	-2.02	-1.21	0.40
16000.	155.	1030.	-2.37	-2.84	-1.90	-0.95	0.47
17000.	112.	884.	-2.00	-2.11	-1.44	-0.55	1.00
18000.	107.	758.	-1.69	-1.82	-1.17	-0.26	1.04
19000.	103.	649.	-1.52	-1.67	-1.06	0.00	1.21
20000.	95.	556.	-1.42	-1.60	-1.06	0.00	1.77
21000.	78.	476.	-1.35	-1.45	-1.14	0.41	2.59
22000.	74.	408.	-1.09	-1.21	-0.97	0.73	2.91
23000.	72.	350.	-0.85	-1.13	-0.85	0.85	3.26
24000.	67.	300.	-0.66	-0.83	-0.66	1.16	3.48
25000.	56.	257.	-0.39	-0.58	-0.58	1.55	3.50
26000.	43.	220.	-0.45	-0.68	-0.68	1.81	4.08
27000.	41.	189.	-0.26	-0.53	-0.53	2.38	4.23
28000.	32.	166.	1.85	1.54	1.85	3.08	5.85

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (AFMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (5)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

MAY

Percent Deviation from AFRC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MEDIAN PRESSURE	RELATIVE DEVIATION
5.	155.	0.60	0.99	1.48	1.79	10270.	1.79
1000.	155.	0.66	0.98	1.42	1.75	9320.	1.75
2000.	155.	0.62	0.99	1.36	1.60	8460.	1.60
3000.	155.	0.84	1.26	1.68	1.96	7290.	1.96
4000.	155.	0.79	1.43	1.91	2.23	6430.	2.23
5000.	155.	1.09	1.81	2.54	2.72	5660.	2.72
6000.	155.	1.04	1.87	3.12	3.33	4970.	3.33
7000.	155.	1.19	2.15	3.34	3.58	4340.	3.58
8000.	155.	1.10	1.92	3.57	3.85	3780.	3.85
9000.	155.	0.96	2.23	3.82	4.46	3280.	4.46
10000.	155.	0.74	2.22	4.07	4.81	2830.	4.81
11000.	155.	0.86	2.38	4.54	4.97	2430.	4.97
12000.	155.	0.76	2.57	4.55	5.05	2080.	5.05
13000.	155.	1.18	2.37	4.14	5.03	1775.	5.03
14000.	155.	1.38	2.42	3.81	4.84	1515.	4.84
15000.	155.	1.62	2.43	4.05	4.86	1295.	4.86
16000.	155.	1.90	2.37	4.27	4.74	1105.	4.74
17000.	112.	2.44	3.44	4.55	4.88	946.	4.88
18000.	107.	2.72	3.63	4.93	5.06	810.	5.06
19000.	103.	2.88	3.95	4.86	5.16	693.	5.16
20000.	95.	3.01	3.90	4.61	5.14	593.	5.14
21000.	78.	3.73	4.48	4.98	5.60	509.	5.60
22000.	74.	4.00	4.73	5.22	5.34	434.	5.34
23000.	72.	4.26	4.99	5.39	5.53	372.	5.53
24000.	67.	4.64	5.31	5.64	5.80	319.	5.80
25000.	56.	5.05	6.02	6.60	6.80	275.	6.80
26000.	43.	5.90	6.35	7.03	7.26	237.	7.26
27000.	41.	6.35	6.88	7.67	7.67	204.	7.67
28000.	32.	6.77	7.38	8.00	8.00	176.	8.00

Note: When less than 30 observations were available, frequency distribution data were excluded.

AFRC (ARDA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (6)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

JUNE

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	9930.	-1.58	-1.59	-1.00	-0.29	0.30
1000.	150.	9010.	-1.64	-1.75	-0.87	-0.11	0.44
2000.	150.	7970.	-1.73	-1.85	-0.74	0.00	0.62
3000.	150.	7050.	-1.40	-1.54	-0.42	0.00	0.70
4000.	150.	6210.	-1.27	-1.43	-0.48	0.16	0.95
5000.	150.	5460.	-0.91	-1.09	-0.36	0.54	1.45
6000.	150.	4760.	-1.04	-1.25	-0.62	0.62	1.66
7000.	150.	4120.	-1.67	-1.91	-0.72	0.72	1.91
8000.	150.	3550.	-2.47	-2.75	-1.10	0.55	1.92
9000.	150.	3060.	-2.55	-2.87	-1.27	0.64	2.23
10000.	150.	2630.	-2.59	-2.96	-1.85	0.37	2.22
11000.	150.	2265.	-2.16	-2.38	-1.51	0.65	2.59
12000.	150.	1950.	-1.52	-1.77	-1.26	0.76	2.53
13000.	150.	1670.	-1.18	-1.48	-0.89	1.46	2.66
14000.	150.	1440.	-0.35	-0.69	-0.35	1.73	2.77
15000.	149.	1235.	0.00	-0.40	0.00	1.62	2.83
16000.	149.	1055.	0.00	-0.47	0.00	1.90	3.32
17000.	149.	906.	0.44	0.22	0.55	2.22	3.66
18000.	149.	775.	0.52	0.39	0.78	2.33	3.89
19000.	149.	663.	0.61	0.46	0.91	2.58	3.95
20000.	149.	567.	0.53	0.35	1.06	2.66	3.90
21000.	139.	486.	0.73	0.62	1.35	2.90	4.46
22000.	131.	416.	0.85	0.73	0.97	3.03	4.73
23000.	128.	356.	0.99	0.85	1.13	3.40	4.96
24000.	121.	305.	1.16	1.00	1.82	3.81	5.47
25000.	111.	261.	1.36	1.17	2.14	4.27	6.21
26000.	95.	225.	1.81	1.59	2.27	4.54	6.35
27000.	81.	192.	1.59	1.32	2.12	4.76	6.88
28000.	65.	165.	1.54	1.23	2.15	4.92	7.08
29000.	49.	143.	1.79	1.07	2.14	4.64	7.50
30000.	31.	123.	1.24	0.83	1.24	5.37	7.85

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ARDA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (6)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria	Period of Observation: March 1954 - February 1959
JUNE	Percent Deviation from AMRC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM PRESSURE	RELATIVE DEVIATION
5.	150.	0.59	0.89	1.29	1.49	10240.	1.49
1000.	150.	0.66	0.98	1.53	1.75	9320.	1.75
2000.	150.	0.86	1.11	1.85	2.10	8240.	2.10
3000.	150.	1.12	1.40	2.24	2.80	7350.	2.80
4000.	150.	1.43	1.75	2.86	3.34	6510.	3.34
5000.	150.	1.81	2.18	3.27	3.81	5720.	3.81
6000.	150.	2.49	2.70	3.95	4.57	5030.	4.57
7000.	150.	2.39	2.86	4.30	4.77	4390.	4.77
8000.	150.	2.47	3.30	4.67	5.22	3830.	5.22
9000.	150.	3.18	3.82	5.41	5.73	3320.	5.73
10000.	150.	3.33	3.70	6.30	6.67	2880.	6.67
11000.	150.	3.46	4.10	6.70	7.13	2480.	7.13
12000.	150.	3.54	4.29	6.57	7.32	2125.	7.32
13000.	150.	3.85	4.44	6.51	7.40	1815.	7.40
14000.	150.	3.81	4.50	6.23	6.92	1545.	6.92
15000.	149.	4.05	4.86	6.07	6.88	1320.	6.88
16000.	149.	4.27	4.74	6.16	6.64	1125.	6.64
17000.	149.	4.43	5.21	6.43	6.87	964.	6.87
18000.	149.	4.67	5.45	6.49	6.87	824.	6.87
19000.	149.	4.86	5.46	6.68	7.13	706.	7.13
20000.	149.	4.79	5.67	6.74	7.09	604.	7.09
21000.	139.	5.29	5.91	6.85	7.37	518.	7.37
22000.	131.	5.58	6.07	7.16	7.65	444.	7.65
23000.	128.	5.82	6.52	7.52	8.09	381.	8.09
24000.	121.	6.30	6.97	8.13	8.46	327.	8.46
25000.	111.	6.99	7.96	8.74	9.32	282.	9.32
26000.	95.	7.26	7.71	9.30	9.75	242.	9.75
27000.	81.	7.67	8.47	10.05	10.32	209.	10.32
28000.	65.	8.00	8.82	10.46	10.77	180.	10.77
29000.	49.	8.21	8.93	10.71	11.07	156.	11.07
30000.	31.	8.26	9.09	10.33	10.74	134.	10.74

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AMRA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (7)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

JULY — **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
0.	155.	9990.	-0.9[illegible]	-1.00	-0.69	-0.39	0.29
1000.	155.	9090.	-0.76	-0.87	-0.55	-0.11	0.44
2000.	155.	8050.	-0.74	-0.86	-0.37	0.00	0.62
3000.	155.	7110.	-0.56	-0.70	-0.28	0.14	0.84
4000.	155.	6260.	-0.48	-0.64	-0.32	0.16	1.11
5000.	155.	5500.	-0.18	-0.36	0.00	0.73	1.63
6000.	155.	4790.	-0.42	-0.62	0.00	0.83	1.87
7000.	155.	4170.	-0.48	-0.72	0.00	0.95	2.15
8000.	155.	3600.	-1.10	-1.37	-0.27	0.82	2.47
9000.	155.	3100.	-1.27	-1.59	0.00	0.96	2.87
10000.	155.	2680.	-0.74	-1.11	0.00	1.11	2.96
11000.	155.	2315.	0.00	-0.22	0.43	1.30	3.24
12000.	155.	1995.	0.76	0.51	0.76	2.02	3.54
13000.	155.	1715.	1.48	1.18	1.48	2.66	4.14
14000.	155.	1475.	2.08	1.73	2.08	3.11	4.50
15000.	155.	1265.	2.43	2.02	2.43	3.24	4.45
16000.	155.	1080.	2.37	1.90	2.37	3.32	4.74
17000.	155.	926.	2.66	2.55	2.99	3.99	4.88
18000.	155.	791.	2.59	2.46	3.11	4.15	5.06
19000.	155.	677.	2.72	2.58	3.34	4.25	5.16
20000.	155.	579.	2.66	2.48	3.37	4.43	5.14
21000.	148.	499.	3.53	3.42	3.84	4.77	5.81
22000.	138.	429.	4.00	3.88	4.25	5.22	6.07
23000.	134.	368.	4.26	4.11	4.54	5.39	6.24
24000.	133.	316.	4.64	4.48	4.98	5.80	6.80
25000.	130.	271.	5.05	4.85	5.63	6.60	7.57
26000.	125.	233.	5.44	5.22	5.90	7.03	7.94
27000.	112.	200.	5.82	5.56	6.35	7.41	8.73
28000.	87.	173.	6.15	5.85	6.46	7.69	8.92
29000.	68.	149.	6.43	6.07	6.79	7.86	9.29

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACIC (ARMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (7)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

JULY — **Percent Deviation from AMRC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MEDIAN PRESSURE	RELATIVE DEVIATION
5.	155.	0.40	0.69	1.19	1.20	10210.	1.20
1000.	155.	0.66	0.98	1.31	1.31	9260.	1.31
2000.	155.	0.99	1.23	1.60	1.85	8600.	1.85
3000.	155.	1.26	1.54	2.36	2.66	7940.	2.66
4000.	155.	1.59	1.91	3.02	3.34	6500.	3.34
5000.	155.	2.00	2.54	3.63	3.99	5720.	3.99
6000.	155.	2.70	3.33	4.37	4.78	5040.	4.78
7000.	155.	2.86	3.58	4.77	5.73	4430.	5.73
8000.	155.	3.02	3.85	5.22	6.04	3860.	6.04
9000.	155.	3.50	4.46	6.05	6.69	3350.	6.69
10000.	155.	4.07	4.81	7.04	7.78	2910.	7.78
11000.	155.	4.32	5.40	7.78	8.21	2505.	8.21
12000.	155.	4.80	5.56	8.08	8.59	2150.	8.59
13000.	155.	5.03	5.92	8.58	9.17	1845.	9.17
14000.	155.	5.19	5.88	8.30	9.34	1580.	9.34
15000.	155.	5.26	6.07	8.10	9.31	1350.	9.31
16000.	155.	5.21	5.69	8.06	9.00	1150.	9.00
17000.	155.	5.54	6.32	8.43	8.98	983.	8.98
18000.	155.	5.71	6.36	8.43	8.82	839.	8.82
19000.	155.	5.77	6.68	8.35	8.95	718.	8.95
20000.	155.	5.85	6.74	8.33	8.87	614.	8.87
21000.	148.	6.33	7.16	8.71	8.92	525.	8.92
22000.	138.	6.80	7.52	8.98	9.22	450.	9.22
23000.	134.	7.23	8.09	9.36	9.65	387.	9.65
24000.	133.	7.79	8.62	9.95	10.12	332.	10.12
25000.	130.	8.54	9.51	10.68	10.87	286.	10.87
26000.	125.	9.07	9.98	11.11	11.79	247.	11.79
27000.	112.	9.52	10.32	11.64	11.90	212.	11.90
28000.	87.	9.85	10.46	12.00	12.31	183.	12.31
29000.	68.	10.00	10.71	12.14	12.50	158.	12.50

Note: When less than 30 observations were available, frequency distribution data were excluded.

AMRC (ARDA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (8)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

AUGUST

Percent Deviation from AMC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	9970.	-1.18	-1.19	-0.99	-0.39	0.39
1000.	155.	9080.	-0.87	-0.98	-0.66	0.00	0.55
2000.	155.	8040.	-0.86	-0.99	-0.49	0.25	0.62
3000.	155.	7090.	-0.84	-0.98	-0.28	0.28	0.98
4000.	155.	6240.	-0.79	-0.95	-0.32	0.48	1.27
5000.	155.	5410.	-0.54	-0.73	0.00	0.73	1.63
6000.	155.	4780.	-0.62	-0.83	0.00	1.04	2.29
7000.	155.	4170.	-0.48	-0.72	0.00	1.19	2.39
8000.	155.	3620.	-0.55	-0.82	-0.27	1.10	2.47
9000.	155.	3120.	-0.64	-0.96	-0.32	1.27	2.87
10000.	155.	2680.	-0.74	-1.11	-0.37	1.48	2.96
11000.	155.	2300.	-0.65	-0.86	0.00	1.51	3.46
12000.	155.	1980.	0.00	-0.25	0.25	1.77	3.54
13000.	155.	1700.	0.59	0.30	0.89	2.37	4.14
14000.	155.	1460.	1.04	0.69	1.38	2.77	4.15
15000.	155.	1255.	1.62	1.21	2.02	3.24	4.45
16000.	155.	1075.	1.90	1.42	2.37	3.32	4.27
17000.	155.	920.	2.00	1.88	2.88	3.88	4.77
18000.	155.	788.	2.20	2.08	2.98	4.15	4.93
19000.	155.	676.	2.58	2.43	3.19	4.25	5.01
20000.	155.	579.	2.66	2.48	3.19	4.26	5.14
21000.	138.	497.	3.01	2.90	3.53	4.77	5.81
22000.	124.	426.	3.28	3.16	3.88	4.85	6.07
23000.	119.	365.	3.55	3.40	3.97	4.96	6.52
24000.	111.	313.	3.81	3.65	3.98	5.31	6.80
25000.	105.	269.	4.27	4.08	4.27	6.02	7.38
26000.	98.	231.	4.54	4.31	4.76	6.35	7.71
27000.	93.	199.	5.03	4.76	5.03	6.61	8.47
28000.	60.	171.	4.92	4.62	5.23	6.77	8.31
29000.	44.	147.	5.00	4.64	5.00	6.79	8.57

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ARDA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (8)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

AUGUST — **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	60.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM PRESSURE	RELATIVE DEVIATION
5.	155.	0.50	0.80	1.28	1.49	10[illegible]0.	1.49
1000.	155.	0.66	0.98	1.53	1.64	9210.	1.64
2000.	155.	0.86	1.23	1.73	1.97	8270.	1.97
3000.	155.	1.26	1.54	2.10	2.38	7320.	2.38
4000.	155.	1.43	1.91	2.54	3.18	6490.	3.18
5000.	155.	2.18	2.54	3.09	3.81	5720.	3.81
6000.	155.	2.70	3.12	3.95	4.57	5030.	4.57
7000.	155.	2.86	3.34	4.30	5.25	4410.	5.25
8000.	155.	3.30	3.85	4.67	5.49	3940.	5.49
9000.	155.	3.82	4.46	5.41	6.37	3360.	6.37
10000.	155.	4.07	4.81	6.30	7.04	2890.	7.04
11000.	155.	4.32	5.40	6.70	7.78	2495.	7.78
12000.	155.	4.80	5.81	7.07	8.08	2140.	8.08
13000.	155.	5.03	5.92	7.40	8.28	1830.	8.28
14000.	155.	5.19	5.88	7.61	8.30	1565.	8.30
15000.	155.	4.86	5.67	7.69	8.10	1335.	8.10
16000.	155.	4.74	5.69	7.11	8.06	1140.	8.06
17000.	155.	5.21	5.99	7.76	8.31	977.	8.31
18000.	155.	5.45	6.10	7.65	8.30	835.	8.30
19000.	155.	5.46	6.37	7.74	8.50	715.	8.50
20000.	155.	5.67	6.56	7.80	8.69	613.	8.69
21000.	138.	6.22	6.95	8.40	9.02	526.	9.02
22000.	124.	6.55	7.40	8.86	9.59	452.	9.59
23000.	119.	7.09	7.60	9.08	10.07	389.	10.07
24000.	111.	7.46	8.46	9.78	10.78	334.	10.78
25000.	105.	8.16	9.13	10.68	11.46	287.	11.46
26000.	98.	8.62	9.75	11.56	12.47	248.	12.47
27000.	93.	9.26	10.32	12.17	12.96	214.	12.96
28000.	60.	8.92	9.54	12.62	13.54	185.	13.54
29000.	44.	9.29	10.00	12.56	13.57	159.	13.57

Note: When less than 30 observations were available, frequency distribution data were excluded.

ADRC (AFMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (9)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

SEPTEMBER — **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	9940.	-1.48	-1.49	-0.60	0.19	0.59
1000.	150.	9010.	-1.64	-1.75	-0.55	0.33	0.66
[illegible]	150.	7960.	-1.85	-1.97	-0.62	0.25	0.86
[illegible]	150.	7030.	-1.69	-1.82	-0.70	0.28	1.12
4000.	150.	6180.	-1.75	-1.91	-0.95	0.32	1.27
5000.	150.	5410.	-1.81	-2.00	-1.09	0.54	1.81
6000.	150.	4710.	-2.08	-2.29	-1.25	0.62	2.29
7000.	150.	4080.	-2.63	-2.86	-1.43	0.72	2.39
8000.	150.	3520.	-3.30	-3.57	-1.65	0.55	2.47
9000.	150.	3030.	-3.50	-3.82	-1.91	0.64	2.87
10000.	150.	2600.	-3.70	-4.07	-1.85	0.74	2.96
11000.	150.	2245.	-3.02	-3.24	-1.94	1.08	3.24
12000.	150.	1925.	-2.78	-3.03	-1.52	1.26	3.28
13000.	149.	1650.	-2.37	-2.66	-1.18	1.45	3.25
14000.	149.	1415.	-2.08	-2.42	-0.35	1.38	3.11
15000.	149.	1220.	-1.21	-1.62	-0.40	1.21	2.83
16000.	149.	1045.	-0.95	-1.42	0.00	1.42	2.84
17000.	149.	892.	-1.11	-1.22	0.00	1.66	2.88
18000.	149.	764.	-0.91	-1.04	0.00	1.56	2.72
19000.	149.	653.	-0.91	-1.06	0.00	1.52	2.88
20000.	149.	559.	-0.89	-1.06	-0.18	1.24	2.66
21000.	116.	482.	-0.19	-0.21	0.00	1.35	3.01
22000.	115.	412.	-0.12	-0.24	0.00	1.33	3.03
23000.	112.	352.	-0.28	-0.43	0.00	1.56	3.12
24000.	111.	301.	-0.33	-0.50	0.00	1.49	3.32
25000.	105.	257.	-0.19	-0.39	0.00	1.75	3.50
26000.	97.	220.	-0.45	-0.68	0.00	1.81	3.85
27000.	80.	186.	-0.53	-0.79	-0.53	1.32	4.23
28000.	66.	161.	-0.92	-1.23	-0.92	0.92	4.92
29000.	46.	138.	-1.43	-1.79	-0.71	2.14	5.00

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (AMMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (9)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

SEPTEMBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM PRESSURE	RELATIVE DEVIATION
5.	150.	0.70	1.00	1.49	1.69	10260.	1.69
1000.	150.	0.87	1.09	1.53	1.64	9310.	1.64
2000.	150.	0.99	1.23	1.73	1.85	8260.	1.85
3000.	150.	1.40	1.68	2.24	2.52	7330.	2.52
4000.	150.	1.59	1.91	2.54	3.18	6490.	3.18
5000.	150.	2.18	2.54	3.27	3.81	5720.	3.81
6000.	150.	2.70	3.12	4.16	4.57	5030.	4.57
7000.	150.	2.86	3.34	4.53	5.25	4410.	5.25
8000.	150.	3.02	3.57	4.95	5.22	3830.	5.22
9000.	150.	3.50	4.14	5.41	6.05	3330.	6.05
10000.	150.	3.70	4.44	6.30	6.67	2880.	6.67
11000.	150.	3.89	4.75	6.48	7.13	2480.	7.13
12000.	150.	4.04	4.80	6.57	7.07	2120.	7.07
13000.	149.	3.85	4.73	6.51	6.80	1805.	6.80
14000.	149.	3.81	4.50	5.88	6.57	1540.	6.57
15000.	149.	3.64	4.05	5.67	6.48	1315.	6.48
16000.	149.	3.32	3.79	5.21	6.16	1120.	6.16
17000.	149.	3.44	4.10	5.43	6.21	958.	6.21
18000.	149.	3.37	4.28	5.45	6.10	819.	6.10
19000.	149.	3.49	4.25	5.31	6.22	700.	6.22
20000.	149.	3.37	4.08	5.67	6.38	600.	6.38
21000.	116.	3.73	4.56	6.02	6.54	514.	6.54
22000.	115.	4.00	4.85	6.31	6.67	440.	6.67
23000.	112.	4.11	4.96	6.67	6.95	377.	6.95
24000.	111.	4.31	5.14	6.97	7.30	324.	7.30
25000.	105.	4.66	5.83	7.77	7.96	278.	7.96
26000.	97.	4.99	6.12	8.16	8.39	239.	8.39
27000.	80.	5.82	6.88	8.73	8.73	206.	8.73
28000.	66.	6.15	7.38	8.92	8.92	177.	8.92
29000.	46.	6.07	7.86	8.93	8.93	153.	8.93

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (10)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

OCTOBER — **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	9980.	-1.08	-1.09	-0.89	-0.20	0.80
1000.	154.	9030.	-1.42	-1.53	-0.76	-0.22	0.76
2000.	154.	7980.	-1.85	-1.97	-1.23	-0.37	0.62
3000.	154.	7000.	-2.10	-2.24	-1.40	-0.42	0.84
4000.	154.	6120.	-2.70	-2.86	-1.75	-0.64	0.95
5000.	154.	5320.	-3.45	-3.63	-2.18	-0.73	1.27
6000.	154.	4620.	-3.95	-4.16	-2.70	-0.83	1.46
7000.	154.	3980.	-5.01	-5.25	-3.10	-0.95	1.67
8000.	154.	3420.	-6.04	-6.32	-3.85	-1.37	1.65
9000.	154.	2940.	-6.37	-6.69	-4.46	-1.59	1.91
10000.	154.	2530.	-6.30	-6.67	-4.81	-1.85	1.85
11000.	154.	2170.	-6.26	-6.48	-4.54	-1.94	1.94
12000.	154.	1865.	-5.81	-6.06	-4.80	-2.27	1.77
13000.	153.	1605.	-5.03	-5.33	-4.44	-1.78	1.48
14000.	153.	1380.	-4.50	-4.84	-4.50	-1.38	1.38
15000.	153.	1185.	-4.05	-4.45	-4.05	-1.62	0.81
16000.	153.	1010.	-4.27	-4.74	-4.27	-1.42	0.47
17000.	148.	861.	-4.55	-4.66	-4.32	-1.44	0.44
18000.	148.	734.	-4.80	-4.93	-4.54	-1.43	0.13
19000.	148.	627.	-4.86	-5.01	-4.70	-1.52	0.00
20000.	148.	534.	-5.32	-5.50	-4.96	-1.77	-0.35
21000.	107.	456.	-5.50	-5.60	-5.08	-1.87	-0.31
22000.	105.	390.	-5.34	-5.46	-4.85	-2.06	-0.36
23000.	100.	333.	-5.53	-5.67	-4.54	-2.41	-0.57
24000.	93.	285.	-5.64	-5.80	-4.81	-2.65	-0.50
25000.	85.	244.	-5.44	-5.63	-5.24	-2.52	-0.58
26000.	72.	208.	-5.67	-5.90	-5.44	-2.72	-0.91
27000.	62.	178.	-5.82	-6.08	-5.82	-2.65	-0.79
28000.	49.	155.	-4.62	-4.92	-4.62	-3.08	-1.23

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ARMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (10)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

OCTOBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	66.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM PRESSURE	RELATIVE DEVIATION
5.	155.	1.09	1.38	1.98	2.19	10310.	2.19
1000.	154.	1.09	1.31	1.86	2.07	9350.	2.07
2000.	154.	0.99	1.36	1.73	2.22	8290.	2.22
3000.	154.	1.26	1.54	2.10	2.66	7340.	2.66
4000.	154.	1.43	1.75	2.54	3.18	6490.	3.18
5000.	154.	1.81	2.18	3.09	3.63	5710.	3.63
6000.	154.	2.29	2.70	3.74	4.37	5020.	4.37
7000.	154.	2.39	2.86	3.82	4.53	4380.	4.53
8000.	154.	2.47	2.75	4.12	4.95	3820.	4.95
9000.	154.	2.55	3.18	4.78	5.41	3310.	5.41
10000.	154.	2.59	3.33	5.56	6.30	2870.	6.30
11000.	154.	2.81	3.46	5.40	6.48	2465.	6.48
12000.	154.	2.53	3.28	5.56	6.31	2105.	6.31
13000.	153.	2.37	2.96	5.03	6.21	1795.	6.21
14000.	153.	2.08	2.77	4.50	5.54	1525.	5.54
15000.	153.	1.62	2.43	4.05	4.86	1295.	4.86
16000.	153.	0.95	1.90	3.32	4.27	1100.	4.27
17000.	148.	1.00	1.88	3.33	4.21	940.	4.21
18000.	148.	0.65	1.56	2.98	3.76	800.	3.76
19000.	148.	0.46	1.52	2.88	3.49	682.	3.49
20000.	148.	0.18	1.24	2.48	3.19	582.	3.19
21000.	107.	0.31	1.24	2.39	2.80	496.	2.80
22000.	105.	0.12	1.21	2.43	2.67	423.	2.67
23000.	100.	0.14	1.28	2.41	2.70	362.	2.70
24000.	93.	0.17	1.49	2.49	2.82	310.	2.82
25000.	85.	0.39	1.75	2.91	3.11	266.	3.11
26000.	72.	0.68	2.04	3.17	3.63	229.	3.63
27000.	62.	0.79	2.12	3.70	3.97	197.	3.97
28000.	49.	0.31	1.85	3.69	4.00	169.	4.00

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (11)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria	Period of Observation: March 1954 - February 1959
NOVEMBER	Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	9970.	-1.58	-1.59	-0.80	-0.10	0.80
1000.	150.	8990.	-1.86	-1.97	-0.98	-0.22	0.55
2000.	150.	7970.	-2.22	-2.34	-1.60	-0.49	0.12
3000.	150.	6980.	-2.66	-2.80	-1.96	-0.56	0.00
4000.	150.	6080.	-3.34	-3.50	-2.70	-0.79	-0.16
5000.	150.	5270.	-4.36	-4.54	-3.09	-1.09	0.00
6000.	150.	4560.	-5.20	-5.41	-3.53	-1.46	0.00
7000.	150.	3930.	-6.21	-6.44	-4.06	-1.67	0.00
8000.	150.	3370.	-7.42	-7.97	-4.95	-2.20	-0.55
9000.	150.	2880.	-8.28	-8.60	-5.41	-2.55	-0.64
10000.	150.	2460.	-9.89	-9.26	-5.93	-3.33	-0.74
11000.	150.	2100.	-9.29	-9.50	-6.48	-3.67	-1.08
12000.	150.	1800.	-9.09	-9.34	-6.31	-4.04	-1.26
13000.	150.	1535.	-9.17	-9.47	-6.21	-3.85	-1.78
14000.	150.	1310.	-9.34	-9.69	-6.57	-4.15	-2.08
15000.	150.	1115.	-9.72	-10.12	-6.88	-4.05	-2.02
16000.	146.	955.	-9.48	-9.95	-7.11	-4.27	-2.37
17000.	137.	812.	-9.98	-10.09	-7.43	-4.32	-2.22
18000.	137.	689.	-10.64	-10.77	-7.91	-4.80	-2.33
19000.	136.	565.	-11.23	-11.38	-8.65	-5.16	-2.73
20000.	135.	496.	-12.06	-12.06	-9.57	-5.67	-3.19
21000.	95.	420.	-12.86	-12.97	-8.20	-5.50	-2.90
22000.	91.	365.	-11.53	-11.65	-8.74	-5.83	-3.28
23000.	85.	319.	-9.65	-9.79	-8.09	-6.10	-3.55
24000.	80.	270.	-10.45	-10.61	-8.96	-6.80	-3.81
25000.	65.	229.	-11.07	-11.26	-10.68	-7.18	-3.50
26000.	57.	195.	-11.56	-11.79	-10.88	-7.26	-3.63
27000.	50.	165.	-12.70	-12.96	-12.17	-8.47	-4.23
28000.	35.	142.	-12.92	-13.23	-12.92	-9.54	-4.00

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ARMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (11)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

NOVEMBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MEAN PRESSURE	RELATIVE DEVIATION
5.	150.	1.19	1.58	2.19	2.58	10150.	2.58
1000.	150.	0.76	1.09	1.86	2.40	9180.	2.40
2000.	150.	0.37	0.74	1.48	2.22	8290.	2.22
3000.	150.	0.28	0.84	1.68	2.24	7310.	2.24
4000.	150.	0.16	0.79	1.59	2.23	6430.	2.23
5000.	150.	0.36	1.09	2.00	2.54	5650.	2.54
6000.	150.	0.42	1.25	2.29	2.70	4940.	2.70
7000.	150.	0.48	1.19	2.15	2.63	4300.	2.63
8000.	150.	0.27	1.10	2.20	2.47	3730.	2.47
9000.	150.	0.00	1.27	2.23	2.87	3230.	2.87
10000.	150.	0.00	1.11	2.22	2.96	2780.	2.96
11000.	150.	-0.43	0.86	2.16	3.24	2390.	3.24
12000.	150.	-0.51	0.51	1.77	3.28	2045.	3.28
13000.	150.	-0.89	0.30	1.48	3.55	1750.	3.55
14000.	150.	-0.69	0.00	1.04	3.11	1490.	3.11
15000.	150.	-1.21	-0.40	0.81	2.43	1265.	2.43
16000.	146.	-1.42	-0.47	0.00	1.90	1075.	1.90
17000.	137.	-1.33	-0.67	-0.11	1.44	915.	1.44
18000.	137.	-1.56	-0.78	-0.26	0.91	778.	0.91
19000.	136.	-2.12	-0.91	-0.30	0.61	663.	0.61
20000.	135.	-2.30	-1.24	-0.71	0.18	565.	0.18
21000.	95.	-2.07	-1.45	-0.41	-0.21	481.	-0.21
22000.	91.	-2.18	-1.58	-0.61	-0.12	412.	-0.12
23000.	85.	-2.41	-1.84	-0.85	-0.14	352.	-0.14
24000.	80.	-2.82	-2.16	-1.00	0.00	302.	0.00
25000.	65.	-2.52	-2.14	-0.78	0.00	258.	0.00
26000.	57.	-2.95	-2.04	-1.13	0.00	221.	0.00
27000.	50.	-3.17	-2.12	-1.32	-0.26	189.	-0.26
28000.	35.	-3.38	-2.46	-0.92	-0.62	162.	-0.62

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (11)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

NOVEMBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM PRESSURE	RELATIVE DEVIATION
5.	150.	1.19	1.58	2.19	2.58	10350.	2.58
1000.	150.	0.76	1.09	1.86	2.40	9380.	2.40
2000.	150.	0.37	0.74	1.48	2.22	8290.	2.22
3000.	150.	0.28	0.84	1.68	2.24	7310.	2.24
4000.	150.	0.16	0.79	1.59	2.23	6430.	2.23
5000.	150.	0.36	1.09	2.00	2.54	5650.	2.54
6000.	150.	0.42	1.25	2.29	2.70	4940.	2.70
7000.	150.	0.48	1.19	2.15	2.63	4300.	2.63
8000.	150.	0.27	1.10	2.20	2.47	3730.	2.47
9000.	150.	0.00	1.27	2.23	2.87	3230.	2.87
10000.	150.	0.00	1.11	2.22	2.96	2780.	2.96
11000.	150.	-0.43	0.86	2.16	3.24	2390.	3.24
12000.	150.	-0.51	0.51	1.77	3.28	2045.	3.28
13000.	150.	-0.89	0.30	1.48	3.55	1750.	3.55
14000.	150.	-0.69	0.00	1.04	3.11	1490.	3.11
15000.	150.	-1.21	-0.40	0.81	2.43	1265.	2.43
16000.	146.	-1.42	-0.47	0.00	1.90	1075.	1.90
17000.	137.	-1.33	-0.67	-0.11	1.44	915.	1.44
18000.	137.	-1.56	-0.78	-0.26	0.91	776.	0.91
19000.	136.	-2.12	-0.91	-0.30	0.61	663.	0.61
20000.	135.	-2.30	-1.24	-0.71	0.18	565.	0.18
21000.	95.	-2.07	-1.45	-0.41	-0.21	481.	-0.21
22000.	91.	-2.18	-1.58	-0.61	-0.12	412.	-0.12
23000.	85.	-2.41	-1.84	-0.85	-0.14	352.	-0.14
24000.	80.	-2.82	-2.16	-1.00	0.00	302.	0.00
25000.	65.	-2.52	-2.14	-0.78	0.00	256.	0.00
26000.	57.	-2.95	-2.04	-1.13	0.00	221.	0.00
27000.	50.	-3.17	-2.12	-1.32	-0.26	189.	-0.26
28000.	35.	-3.38	-2.46	-0.92	-0.62	162.	-0.62

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFSWC) Form 600-1, 27 Sep 61 (One-Time)

Table IV (12)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

DECEMBER — **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	9770.	-3.17	-3.18	-2.27	-1.00	0.69
1000.	155.	8860.	-3.28	-3.38	-2.40	-1.31	0.22
2000.	155.	7830.	-3.45	-3.58	-2.64	-1.60	-0.25
3000.	155.	6870.	-3.92	-4.06	-3.08	-1.82	-0.56
4000.	155.	6010.	-4.45	-4.61	-3.66	-2.23	-0.79
5000.	155.	5210.	-5.44	-5.63	-4.36	-2.72	-0.91
6000.	155.	4510.	-6.24	-6.44	-4.99	-3.12	-1.25
7000.	155.	3870.	-7.64	-7.88	-5.97	-3.58	-1.67
8000.	155.	3320.	-8.79	-9.07	-7.14	-4.12	-2.20
9000.	155.	2860.	-8.92	-9.24	-7.96	-4.78	-2.55
10000.	155.	2450.	-9.26	-9.63	-8.52	-5.19	-2.96
11000.	155.	2095.	-9.50	-9.72	-8.64	-5.40	-3.24
12000.	155.	1790.	-9.60	-9.85	-8.33	-5.56	-3.79
13000.	155.	1530.	-9.47	-9.76	-8.28	-5.33	-3.55
14000.	154.	1305.	-9.69	-10.03	-8.30	-5.54	-3.81
15000.	154.	1115.	-9.72	-10.12	-8.50	-6.07	-3.64
16000.	139.	965.	-8.53	-9.00	-7.58	-5.69	-3.32
17000.	128.	819.	-9.20	-9.31	-8.20	-5.99	-3.55
18000.	125.	696.	-9.72	-9.86	-8.56	-6.23	-3.76
19000.	125.	593.	-10.02	-10.17	-8.95	-6.53	-3.95
20000.	123.	507.	-10.11	-10.11	-8.87	-6.74	-4.43
21000.	100.	433.	-10.27	-10.37	-8.71	-6.74	-4.36
22000.	92.	369.	-10.56	-10.68	-8.74	-6.80	-4.49
23000.	83.	318.	-9.93	-9.93	-8.94	-6.95	-4.54
24000.	82.	269.	-10.78	-10.95	-9.45	-7.63	-4.98
25000.	77.	229.	-11.26	-11.46	-9.71	-8.35	-5.05
26000.	61.	199.	-9.75	-9.98	-9.52	-8.62	-5.22
27000.	48.	170.	-10.05	-10.32	-10.05	-9.26	-5.82
28000.	33.	144.	-11.69	-12.00	-11.69	-8.92	-5.85

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARMA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (12)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria	Period of Observation: March 1954 - February 1959
DECEMBER	Percent Deviation from AFCC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM PRESSURE	RELATIVE DEVIATION
5.	155.	1.00	1.39	2.09	2.29	10320.	2.29
1000.	155.	0.66	0.98	1.64	2.18	9360.	2.18
2000.	155.	0.25	0.62	1.48	1.97	8270.	1.97
3000.	155.	0.00	0.56	1.54	1.96	7290.	1.96
4000.	155.	-0.32	0.32	1.59	2.07	6420.	2.07
5000.	155.	-0.36	0.36	1.81	2.54	5650.	2.54
6000.	155.	-0.42	0.21	1.87	2.91	4950.	2.91
7000.	155.	-0.72	0.00	1.91	2.63	4300.	2.63
8000.	155.	-1.10	-0.27	1.92	2.75	3740.	2.75
9000.	155.	-1.27	-0.32	1.91	2.87	3230.	2.87
10000.	155.	-1.85	-0.74	1.85	2.59	2770.	2.59
11000.	155.	-1.94	-1.08	1.94	2.59	2375.	2.59
12000.	155.	-2.53	-1.26	1.52	2.27	2025.	2.27
13000.	155.	-2.66	-1.78	1.18	1.78	1720.	1.78
14000.	154.	-2.77	-1.38	0.69	1.04	1460.	1.04
15000.	154.	-2.43	-1.62	0.00	0.81	1245.	0.81
16000.	139.	-2.84	-1.90	0.00	0.47	1060.	0.47
17000.	128.	-2.66	-2.00	0.00	0.22	904.	0.22
18000.	125.	-2.85	-2.08	-0.13	0.26	773.	0.26
19000.	125.	-3.19	-2.28	-0.30	0.30	661.	0.30
20000.	123.	-3.19	-2.30	-0.53	0.00	564.	0.00
21000.	100.	-3.32	-2.39	-0.52	-0.10	482.	-0.10
22000.	92.	-3.64	-2.43	-0.61	-0.12	412.	-0.12
23000.	83.	-3.69	-2.70	-0.71	-0.14	352.	-0.14
24000.	82.	-3.81	-2.99	-0.83	-0.33	301.	-0.33
25000.	77.	-3.88	-2.72	-0.97	-0.19	257.	-0.19
26000.	61.	-4.31	-3.40	-1.59	-1.36	218.	-1.36
27000.	48.	-4.76	-3.70	-2.12	-1.59	186.	-1.59
28000.	33.	-5.23	-4.31	-2.77	-2.77	158.	-2.77

Note: When less than 30 observations were available, frequency distribution data were excluded.

AFCC (ARDA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (13)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria	Period of Observation: March 1954 - February 1959
ANNUAL	Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM PRESSURE	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	1826.	9540.	-4.45	-2.68	-1.38	-0.39	0.49
1000.	1825.	8740.	-4.59	-2.95	-1.75	-0.44	0.33
2000.	1825.	7770.	-4.[illegible]	-3.45	-2.22	-0.74	0.25
3000.	1825.	6920.	-4.[illegible]	-4.20	-2.80	-1.12	0.28
4000.	1825.	5970.	-5.[illegible]	-5.09	-3.34	-1.59	0.16
5000.	1825.	5170.	-5.17	-6.17	-4.17	-2.00	0.36
6000.	1825.	4400.	-7.[illegible]	-6.86	-4.99	-2.29	0.21
7000.	1825.	3820.	-8.[illegible]	-8.35	-5.97	-2.86	0.24
8000.	1825.	3270.	-10.16	-9.34	-6.87	-3.57	0.00
9000.	1824.	2810.	-10.51	-9.87	-7.64	-4.14	0.00
10000.	1824.	2420.	-10.37	-10.00	-8.15	-4.44	-0.37
11000.	1824.	2075.	-10.37	-9.94	-7.99	-4.75	-0.43
12000.	1824.	1790.	-9.60	-9.60	-7.83	-5.05	-0.51
13000.	1822.	1530.	-9.47	-9.47	-7.69	-4.73	-0.89
14000.	1821.	1305.	-9.69	-9.69	-7.61	-4.84	-0.69
15000.	1820.	1115.	-9.72	-10.12	-8.10	-4.45	-0.81
16000.	1755.	945.	-10.43	-9.95	-7.58	-4.27	-0.47
17000.	1672.	798.	-11.53	-10.09	-7.65	-4.55	-0.33
18000.	1658.	674.	-12.58	-10.64	-7.91	-4.80	-0.39
19000.	1651.	568.	-13.81	-11.23	-8.35	-5.01	-0.30
20000.	1625.	**479.**	**-15.07**	**-11.83**	-8.33	-5.32	-0.53
21000.	1314.	**404.**	**-16.18**	-12.45	-8.30	-4.88	0.21
22000.	1236.	358.	-13.11	-12.50	-8.37	-4.85	0.36
23000.	1153.	306.	-13.19	-12.06	-8.23	-4.68	0.85
24000.	1072.	260.	-13.76	-11.94	-8.46	-4.98	1.49
25000.	954.	221.	-14.17	-12.04	-8.93	-4.47	2.14
26000.	828.	194.	-12.24	-12.24	-8.84	-4.08	2.95
27000.	701.	165.	-12.70	-12.70	-8.99	-3.44	3.97
28000.	537.	142.	-12.92	-12.92	-9.23	-3.38	4.00
29000.	330.	124.	-11.43	-11.79	-9.64	-2.14	6.43
30000.	170.	106.	-12.81	-13.22	-11.57	-2.07	6.20
31000.	87.	92.	-11.96	-12.44	-7.18	0.00	6.22

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (AWSA) Form 600-1, 27 Sep 61 (One-Time)

Table IV (13)

FREQUENCY DISTRIBUTIONS OF PRESSURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

ANNUAL

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	34.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM PRESSURE	RELATIVE DEVIATION
5.	1826.	0.79	1.19	1.98	3.08	10410.	3.18
1000.	1825.	0.66	1.09	1.64	2.62	9410.	2.73
2000.	1825.	0.62	0.99	1.60	2.22	8320.	2.59
3000.	1825.	0.84	1.26	1.96	2.66	7350.	2.80
4000.	1825.	0.79	1.43	2.38	3.18	6500.	3.34
5000.	1825.	1.09	2.00	2.90	3.81	5730.	3.99
6000.	1825.	1.25	2.49	3.53	4.57	5040.	4.78
7000.	1825.	1.43	2.63	4.06	5.25	4430.	5.73
8000.	1825.	1.37	2.75	4.40	5.49	3860.	6.04
9000.	1824.	1.59	3.18	5.10	6.37	3350.	6.69
10000.	1824.	1.48	3.33	5.93	7.41	2910.	7.78
11000.	1824.	1.73	3.46	6.26	7.99	2515.	8.21
12000.	1824.	1.77	3.54	6.31	8.33	2150.	8.59
13000.	1822.	2.07	3.85	6.21	8.88	1845.	9.17
14000.	1821.	2.08	3.61	6.23	9.00	1560.	9.34
15000.	1820.	2.02	4.05	6.07	8.91	1350.	9.31
16000.	1755.	2.37	3.79	6.16	8.53	1150.	9.00
17000.	1672.	2.66	4.43	6.54	8.76	983.	8.98
18000.	1658.	2.72	4.67	6.61	8.56	839.	8.82
19000.	1651.	2.88	4.86	6.83	8.65	716.	8.95
20000.	1625.	3.01	4.79	6.91	8.69	614.	8.87
21000.	1314.	3.84	5.60	7.37	8.82	526.	9.02
22000.	1236.	4.13	5.83	7.89	9.22	452.	9.59
23000.	1153.	4.40	6.10	8.37	9.65	388.	10.07
24000.	1072.	4.98	6.63	8.96	10.61	334.	10.78
25000.	954.	5.83	7.38	9.90	11.26	287.	11.46
26000.	828.	6.35	7.94	10.43	12.24	248.	12.47
27000.	701.	7.14	8.73	11.38	12.70	214.	12.96
28000.	537.	7.38	8.62	10.77	13.23	185.	13.54
29000.	330.	7.86	9.29	11.43	13.57	153.	13.57
30000.	170.	7.44	8.26	10.33	11.57	135.	11.57
31000.	87.	7.66	8.13	10.53	11.00	116.	11.00

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (ARDA) Form 600-1, 27 Sep 61 (One-Time)

Table V (1)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

JANUARY — **Absolute Deviation from AMC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	259.35	-27.55	-27.65	-25.55	-18.35	-14.55
1000.	155.	256.55	-25.15	-25.25	-19.25	-15.35	-11.05
2000.	155.	256.25	-18.95	-19.05	-17.45	-14.15	-7.25
3000.	155.	249.25	-19.45	-19.55	-17.35	-13.05	-5.35
4000.	155.	240.95	-21.25	-21.35	-18.15	-12.55	-5.25
5000.	155.	233.75	-21.95	-22.05	-19.25	-12.25	-5.45
6000.	155.	225.15	-24.05	-24.15	-20.45	-12.25	-6.25
7000.	155.	219.45	-23.25	-23.35	-18.55	-12.95	-7.25
8000.	155.	215.25	-20.95	-21.05	-16.15	-12.75	-8.45
9000.	155.	211.45	-18.25	-18.35	-15.25	-11.65	-8.85
10000.	155.	209.05	-14.25	-14.35	-12.25	-10.45	-6.75
11000.	155.	201.25	-15.55	-15.65	-12.05	-7.65	-3.05
12000.	155.	200.95	-15.75	-15.85	-14.25	-7.95	-1.45
13000.	155.	198.95	-17.75	-17.85	-14.65	-4.85	-0.15
14000.	155.	203.55	-13.15	-13.25	-10.85	-5.15	-0.25
15000.	155.	203.15	-13.55	-13.65	-10.35	-5.35	-0.65
16000.	147.	202.45	-14.25	-14.35	-9.45	-5.75	-1.15
17000.	147.	201.15	-15.55	-15.65	-11.85	-6.65	-2.15
18000.	146.	199.85	-16.85	-16.95	-12.75	-7.85	-2.45
19000.	146.	198.65	-18.05	-18.15	-13.65	-8.35	-2.15
20000.	140.	198.25	-18.40	-18.40	-13.00	-7.65	-2.35
21000.	114.	199.25	-17.40	-17.40	-14.30	-6.55	-1.65
22000.	106.	200.55	-16.15	-16.25	-12.45	-7.45	-1.45
23000.	94.	202.35	-14.30	-14.30	-10.90	-7.25	-1.25
24000.	80.	204.85	-11.75	-11.85	-11.65	-6.75	-1.45
25000.	65.	203.55	-13.15	-13.25	-12.15	-7.15	0.95
26000.	51.	203.45	-12.85	-12.95	-12.25	-7.95	1.85
27000.	36.	206.45	-13.85	-13.95	-13.85	-11.65	3.25

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ARMA) Form 600, 27 Sep 61 (One-Time)

Table V (1)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

JANUARY

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	34.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	155.	-12.35	-10.95	-6.55	-5.55	281.35	-5.55
1000.	155.	-8.15	-6.35	0.35	1.85	283.55	1.85
2000.	155.	-4.55	-2.55	1.15	5.85	281.05	5.85
3000.	155.	-3.55	-1.85	1.95	5.75	274.45	5.75
4000.	155.	-3.45	-1.15	3.35	4.65	266.85	4.65
5000.	155.	-3.55	-1.55	2.35	3.75	259.45	3.75
6000.	155.	-4.35	-1.75	1.35	2.25	251.45	2.25
7000.	155.	-5.55	-2.65	0.55	3.85	240.55	3.85
8000.	155.	-6.35	-4.05	-0.75	2.25	238.45	2.25
9000.	155.	-6.85	-4.95	-2.05	-0.05	229.65	-0.05
10000.	155.	-5.75	-3.05	2.35	4.65	227.95	4.65
11000.	155.	0.05	4.35	10.35	12.15	228.85	12.15
12000.	155.	1.55	4.35	9.25	14.45	231.15	14.45
13000.	155.	2.45	4.25	7.45	12.15	228.85	12.15
14000.	155.	1.75	3.65	6.45	9.25	225.95	9.25
15000.	155.	1.55	3.45	6.05	8.35	225.05	8.35
16000.	147.	0.85	3.05	6.35	7.45	224.15	7.45
17000.	147.	0.25	2.45	6.15	7.35	224.05	7.35
18000.	146.	0.05	2.05	5.75	7.45	224.15	7.45
19000.	146.	-0.15	1.75	8.35	13.45	230.15	13.45
20000.	140.	-0.45	2.45	9.45	13.65	230.35	13.65
21000.	114.	0.45	3.25	12.55	14.75	231.45	14.75
22000.	106.	1.35	4.25	14.15	21.15	237.85	21.15
23000.	94.	2.35	5.45	17.85	19.75	236.45	19.75
24000.	80.	3.55	7.35	21.45	22.15	238.85	22.15
25000.	65.	5.95	9.05	20.25	24.45	241.15	24.45
26000.	51.	6.15	9.35	18.65	22.15	241.45	22.15
27000.	36.	6.75	9.45	19.55	19.65	241.55	19.65

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (2)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

FEBRUARY

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	141.	251.95	-75.15	-36.05	-28.65	-21.05	-14.05
1000.	141.	247.95	-33.75	-33.85	-26.95	-18.65	-11.35
2000.	141.	249.65	-25.55	-25.65	-24.55	-16.05	-8.25
3000.	141.	245.45	-23.25	-23.35	-21.05	-16.05	-6.95
4000.	141.	239.55	-22.45	-22.75	-21.15	-14.65	-6.95
5000.	141.	232.15	-23.55	-23.65	-21.55	-14.25	-7.25
6000.	141.	223.95	-25.25	-25.35	-22.85	-15.05	-7.95
7000.	141.	219.15	-23.55	-23.65	-21.15	-15.65	-9.15
8000.	141.	214.85	-19.55	-19.65	-17.15	-14.35	-9.95
9000.	140.	211.65	-18.05	-18.15	-15.85	-12.65	-9.45
10000.	140.	209.75	-13.95	-14.05	-12.25	-9.05	-6.05
11000.	140.	206.95	-9.85	-9.95	-9.35	-6.75	-1.45
12000.	140.	205.55	-16.15	-16.25	-12.75	-8.35	0.95
13000.	140.	202.45	-14.25	-14.35	-10.65	-4.15	0.95
14000.	140.	201.75	-14.95	-15.05	-8.95	-3.25	0.55
15000.	140.	201.15	-15.55	-15.65	-9.95	-3.35	0.15
16000.	140.	201.65	-15.05	-15.15	-11.45	-4.65	-0.75
17000.	140.	199.95	-16.75	-16.85	-13.55	-5.45	-1.45
18000.	140.	198.65	-18.05	-18.15	-13.65	-5.65	-2.15
19000.	140.	199.75	-16.95	-17.05	-14.45	-5.95	-2.25
20000.	133.	197.95	-18.75	-18.85	-14.05	-6.05	-2.55
21000.	103.	196.65	-20.05	-20.15	-16.05	-6.05	-2.55
22000.	91.	195.45	-21.25	-21.35	-12.85	-5.95	-1.65
23000.	78.	196.05	-20.60	-20.60	-14.20	-5.65	-1.05
24000.	67.	201.45	-15.20	-15.20	-9.05	-5.05	-0.25
25000.	57.	203.55	-13.15	-13.25	-7.95	-3.15	0.05
26000.	51.	207.05	-12.25	-12.35	-10.25	-5.05	-1.15
27000.	33.	213.45	-8.85	-8.95	-8.85	-7.55	-1.15

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (2)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

FEBRUARY

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	69.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	141.	-11.95	-9.65	-6.25	-0.25	286.65	-0.25
1000.	141.	-7.55	-4.25	0.95	5.25	286.95	5.25
2000.	141.	-4.95	-1.65	1.95	4.25	279.45	4.25
3000.	141.	-4.25	-0.95	3.35	4.25	272.95	4.25
4000.	141.	-3.55	-0.55	3.75	4.65	266.95	4.65
5000.	141.	-3.55	-0.95	3.55	3.95	259.65	3.95
6000.	141.	-4.65	-1.85	2.45	4.35	251.55	4.35
7000.	141.	-6.05	-2.75	1.35	4.75	247.45	4.75
8000.	141.	-7.25	-3.55	-0.45	3.35	239.55	3.35
9000.	140.	-6.85	-4.85	-1.95	1.45	231.15	1.45
10000.	140.	-4.25	-3.65	1.85	3.85	227.15	3.85
11000.	140.	2.35	4.75	8.65	11.35	228.15	11.35
12000.	140.	3.05	5.45	10.15	11.35	228.05	11.35
13000.	140.	3.25	4.95	7.65	9.55	226.25	9.55
14000.	140.	2.35	4.35	6.65	8.65	225.35	8.65
15000.	140.	1.35	3.25	6.15	6.95	223.65	6.95
16000.	140.	0.35	2.75	5.45	6.05	222.75	6.05
17000.	140.	0.05	1.55	5.45	6.25	222.95	6.25
18000.	140.	-1.05	0.75	3.95	6.45	223.15	6.45
19000.	140.	-1.05	0.35	4.45	6.25	222.95	6.25
20000.	133.	-0.45	1.55	4.35	6.05	222.75	6.05
21000.	103.	-0.45	1.05	5.75	8.95	225.65	8.95
22000.	91.	0.05	2.15	5.45	9.05	225.75	9.05
23000.	78.	2.15	4.95	11.65	13.85	230.55	13.85
24000.	67.	2.55	5.95	18.35	18.95	235.65	18.95
25000.	57.	3.35	5.95	20.25	24.65	241.35	24.65
26000.	51.	3.25	5.85	27.25	29.35	246.65	29.35
27000.	33.	1.65	6.15	24.15	24.25	246.55	24.25

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARDA) Form 600, 27 Sep 61 (One-Time)

Table V (3)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

MARCH — **Absolute Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	262.95	-23.95	-24.05	-20.95	-16.35	-12.95
1000.	155.	260.05	-21.65	-21.75	-18.85	-15.35	-9.65
2000.	155.	252.15	-23.05	-23.15	-20.35	-14.15	-7.05
3000.	155.	244.85	-23.85	-23.95	-19.85	-11.65	-5.95
4000.	155.	237.25	-24.95	-25.05	-20.55	-12.15	-5.45
5000.	155.	232.35	-23.35	-23.45	-21.05	-11.55	-5.95
6000.	155.	223.75	-25.45	-25.55	-18.35	-12.55	-6.65
7000.	155.	222.05	-19.65	-20.75	-18.65	-13.35	-7.65
8000.	155.	216.45	-19.75	-19.85	-16.35	-12.15	-8.25
9000.	155.	212.15	-17.55	-17.65	-13.85	-11.55	-8.55
10000.	155.	209.75	-13.55	-13.65	-12.15	-9.55	-6.35
11000.	155.	205.05	-11.75	-11.85	-9.95	-7.55	-2.35
12000.	155.	202.05	-14.65	-14.75	-12.25	-8.35	-0.15
13000.	155.	203.75	-13.95	-13.05	-9.55	-3.45	0.95
14000.	155.	205.85	-10.85	-10.95	-8.15	-2.55	0.35
15000.	155.	204.85	-11.85	-11.95	-9.35	-3.35	-0.25
16000.	121.	205.05	-11.65	-11.75	-8.25	-4.55	0.05
17000.	123.	203.65	-13.05	-13.15	-10.55	-4.55	-0.55
18000.	123.	203.55	-13.15	-13.25	-11.35	-5.05	-1.25
19000.	123.	202.85	-13.85	-13.95	-10.45	-5.25	-1.35
20000.	121.	206.05	-10.65	-10.75	-10.35	-5.15	-1.05
21000.	93.	206.15	-10.55	-10.65	-9.45	-4.55	-0.65
22000.	89.	205.15	-11.55	-11.65	-5.65	-4.15	0.55
23000.	77.	202.15	-14.50	-14.50	-7.10	-3.85	1.85
24000.	66.	204.15	-12.55	-12.65	-10.55	-3.45	2.45
25000.	50.	205.75	-13.95	-11.05	-8.15	-2.65	3.75
26000.	40.	207.45	-11.95	-11.95	-11.85	-3.35	2.45
27000.	30.	213.15	-9.15	-9.25	-9.15	-4.15	2.15

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (3)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria | **Period of Observation: March 1954 - February 1959**

MARCH | **Absolute Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	155.	-10.65	-8.35	-2.25	2.45	289.35	2.45
1000.	155.	-6.85	-3.45	2.05	6.05	287.75	6.05
2000.	155.	-4.15	-1.45	3.05	6.55	281.75	6.55
3000.	155.	-3.35	-0.85	3.25	5.35	274.05	5.35
4000.	155.	-3.05	-0.35	2.55	5.45	267.65	5.45
5000.	155.	-3.45	-1.05	2.15	4.45	260.15	4.45
6000.	155.	-4.05	-1.95	1.45	2.45	251.65	2.45
7000.	155.	-5.35	-2.75	-0.05	1.45	244.15	1.45
8000.	155.	-6.55	-4.45	-1.65	0.15	236.35	0.15
9000.	155.	-7.05	-4.85	-2.15	-0.95	228.75	-0.95
10000.	155.	-4.45	-2.05	3.15	5.45	228.75	5.45
11000.	155.	1.95	6.15	9.35	13.65	230.45	13.65
12000.	155.	3.55	6.15	11.05	13.65	230.35	13.65
13000.	155.	3.05	6.25	10.35	13.15	229.85	13.15
14000.	155.	2.65	5.55	10.25	11.75	228.45	11.75
15000.	155.	1.55	5.65	8.75	9.85	226.55	9.85
16000.	131.	1.95	5.35	8.25	9.65	226.35	9.65
17000.	123.	2.15	3.85	7.55	8.65	225.35	8.65
18000.	123.	2.05	4.15	6.45	8.15	224.85	8.15
19000.	123.	2.05	3.95	6.55	7.95	224.65	7.95
20000.	121.	2.25	4.05	8.45	9.45	226.15	9.45
21000.	93.	2.95	4.45	8.35	9.55	226.25	9.55
22000.	89.	2.45	4.45	8.35	8.45	225.15	5.45
23000.	77.	2.95	4.55	7.75	9.45	226.15	9.45
24000.	66.	3.85	6.85	11.15	11.45	228.15	11.45
25000.	50.	5.55	8.15	11.45	11.65	228.35	11.65
26000.	40.	4.55	6.85	12.45	12.55	231.85	12.55
27000.	30.	2.95	4.95	10.45	10.55	232.85	10.55

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACIC (AMSA) Form 600, 27 Sep 61 (One-Time)

Table V (4)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria | **Period of Observation: March 1954 - February 1959**

APRIL | **Absolute Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	271.95	-15.35	-16.05	-14.55	-12.25	-7.95
1000.	150.	264.75	-16.55	-17.05	-15.15	-11.75	-6.35
[illegible]	150.	252.55	-18.65	-18.75	-14.85	-11.55	-6.45
3000.	150.	248.45	-20.25	-20.35	-15.55	-10.15	-5.35
4000.	150.	242.95	-19.25	-19.35	-14.35	-9.15	-4.35
[illegible]	150.	236.25	-19.45	-19.55	-15.25	-9.25	-4.45
6000.	150.	228.55	-20.05	-20.75	-15.35	-9.85	-5.25
7000.	150.	222.85	-19.85	-19.95	-15.65	-10.55	-6.25
[illegible]	150.	219.65	-16.55	-16.65	-15.45	-12.35	-7.25
9000.	150.	213.55	-16.15	-16.25	-15.35	-11.15	-6.05
10000.	150.	210.25	-13.05	-13.15	-11.35	-6.55	-5.35
11000.	150.	207.15	-9.65	-9.75	-8.75	-4.55	0.95
12000.	150.	204.05	-12.65	-12.75	-8.95	-3.15	2.65
13000.	150.	205.55	-11.15	-11.25	-5.95	-0.65	3.25
14000.	150.	209.55	-7.15	-7.25	-5.15	0.35	3.05
15000.	150.	208.45	-8.25	-8.35	-5.65	-0.55	2.35
16000.	136.	207.45	-9.25	-9.35	-7.35	-1.65	1.45
17000.	129.	207.35	-9.35	-9.45	-8.35	-1.75	1.35
18000.	124.	205.85	-10.85	-10.95	-9.15	-2.45	0.95
19000.	122.	203.35	-13.35	-13.45	-8.85	-2.95	0.65
20000.	122.	205.95	-10.75	-10.85	-9.25	-3.35	0.55
21000.	83.	207.45	-9.25	-9.35	-6.85	-2.35	1.25
22000.	80.	207.15	-9.55	-9.65	-7.55	-2.45	1.35
23000.	71.	209.25	-7.45	-7.55	-6.65	-1.85	1.35
24000.	61.	211.55	-6.15	-6.25	-4.65	-0.65	2.35
25000.	48.	212.95	-3.75	-3.85	-2.65	1.25	3.45
26000.	38.	216.55	-2.75	-2.85	-2.75	0.05	2.35
27000.	35.	218.45	-3.85	-3.95	-3.85	-2.15	0.75
28000.	32.	218.55	-6.75	-6.85	-6.75	-4.45	-1.55

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARMA) Form 600, 27 Sep 61 (One-Time)

Table V (4)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

APRIL

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	65.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	150.	-6.75	-4.55	-0.55	0.25	287.15	0.25
1000.	150.	-4.45	-0.95	5.25	6.45	288.15	6.45
2000.	150.	-3.75	-1.05	4.25	7.55	281.75	7.55
3000.	150.	-2.75	-0.85	3.55	7.05	275.75	7.05
4000.	150.	-2.35	-0.75	3.55	5.35	267.55	5.35
5000.	150.	-2.75	-0.75	3.15	4.55	260.25	4.55
6000.	150.	-3.45	-1.25	2.55	3.85	253.05	3.85
7000.	150.	-4.65	-1.95	2.05	3.25	245.95	3.25
8000.	150.	-5.95	-3.65	0.65	1.65	237.85	1.65
9000.	150.	-6.65	-4.65	-1.15	1.25	230.95	1.25
10000.	150.	-3.65	-1.95	1.35	1.75	225.05	1.75
11000.	150.	3.35	5.05	6.95	10.05	226.85	10.05
12000.	150.	4.65	6.15	8.25	9.15	225.85	9.15
13000.	150.	5.05	5.85	8.05	9.75	226.45	9.75
14000.	150.	4.25	5.35	7.35	8.35	225.05	8.35
15000.	150.	3.35	4.55	6.95	9.35	226.05	9.35
16000.	136.	2.75	4.15	6.25	7.45	224.15	7.45
17000.	129.	2.35	3.55	6.45	7.25	223.95	7.25
18000.	124.	2.25	3.85	6.75	7.45	224.15	7.45
19000.	122.	1.65	3.35	6.05	7.25	223.95	7.25
20000.	122.	1.75	3.75	7.35	10.15	226.85	10.15
21000.	83.	2.35	4.15	8.85	10.05	226.75	10.05
22000.	80.	3.35	4.35	10.15	11.35	228.05	11.35
23000.	71.	3.25	4.85	7.85	12.95	229.65	12.95
24000.	61.	3.55	5.35	8.45	14.45	231.15	14.45
25000.	48.	5.15	6.35	8.45	13.85	230.55	13.85
26000.	38.	3.65	4.65	6.75	6.85	226.15	6.85
27000.	35.	1.25	3.75	4.55	4.65	226.95	4.65
28000.	32.	-0.75	1.85	3.35	3.45	228.75	3.45

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARDA) Form 600, 27 Sep 61 (One-Time)

Table V (5)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

MAY

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
[illegible]	155.	276.35	-10.55	-10.65	-10.25	-6.35	-3.05
[illegible]	155.	271.45	-10.25	-10.35	-8.75	-5.15	-0.05
[illegible]	155.	267.95	-11.25	-11.35	-10.35	-5.35	0.35
[illegible]	155.	255.85	-11.85	-11.95	-10.25	-2.75	1.05
[illegible]	155.	251.05	-11.15	-11.25	-8.85	-1.95	1.95
[illegible]	155.	244.55	-11.15	-11.25	-8.35	-2.35	1.75
[illegible]	155.	240.05	-9.15	-9.25	-8.15	-2.75	1.05
[illegible]	155.	232.75	-9.95	-10.05	-9.05	-4.05	-0.15
[illegible]	155.	225.25	-10.95	-11.05	-8.75	-5.15	-1.55
[illegible]	155.	219.15	-10.55	-10.65	-8.85	-6.25	-2.85
[illegible]	155.	214.15	-9.15	-9.25	-8.05	-5.55	-2.45
11[illegible]	155.	208.35	-7.45	-7.55	-5.35	-3.05	0.55
12000.	155.	207.25	-9.45	-9.55	-7.85	-3.95	1.15
13000.	155.	207.45	-9.25	-9.35	-7.15	-2.35	2.75
14000.	155.	211.35	-5.35	-5.45	-4.55	-0.35	2.95
[illegible]	155.	213.65	-3.05	-3.15	-2.55	-0.15	2.45
[illegible]	155.	213.55	-3.15	-3.25	-2.15	-0.25	2.45
17000.	112.	212.15	-4.55	-4.65	-2.85	-0.05	2.25
[illegible]	107.	212.75	-3.95	-4.05	-3.35	-0.35	1.95
[illegible]	103.	213.85	-2.85	-2.95	-2.55	-0.25	1.55
[illegible]	95.	214.65	-2.05	-2.15	-1.55	0.05	2.05
[illegible]	78.	215.15	-1.55	-1.65	-0.75	1.15	2.95
[illegible]	74.	216.15	-0.55	-0.65	-0.55	1.55	4.05
[illegible]	72.	216.15	-0.55	-0.65	-0.25	2.25	4.35
[illegible]	67.	216.15	-0.55	-0.65	1.35	3.15	5.15
[illegible]	56.	217.65	0.95	0.85	2.15	3.55	6.25
[illegible]	43.	216.55	-2.75	-2.85	-2.75	2.75	5.15
[illegible]	41.	214.55	-7.75	-7.85	-7.75	1.95	3.95
[illegible]	32.	224.35	-0.95	-1.05	-0.95	0.55	2.45

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARDA) Form 600, 27 Sep 61 (One-Time)

Table V (5)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

MAY

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	155.	-1.25	0.75	5.35	9.75	296.65	9.75
1000.	155.	2.55	5.05	12.65	14.15	295.85	14.15
2000.	155.	2.35	4.65	12.25	13.75	288.95	13.75
3000.	155.	2.45	4.95	10.85	11.95	280.65	11.95
4000.	155.	3.35	5.45	9.45	9.85	272.05	9.85
5000.	155.	3.25	5.55	9.75	10.95	266.65	10.95
6000.	155.	2.65	4.85	8.75	10.15	259.35	10.15
7000.	155.	1.85	4.55	7.65	9.15	251.85	9.15
8000.	155.	0.45	2.85	6.25	7.75	243.95	7.75
9000.	155.	-1.05	1.25	4.85	5.85	235.55	5.85
10000.	155.	-1.25	1.45	3.95	4.65	227.95	4.65
11000.	155.	2.45	4.35	8.95	11.05	227.85	11.05
12000.	155.	3.45	5.55	10.15	11.35	228.05	11.35
13000.	155.	4.45	6.45	9.65	10.45	227.15	10.45
14000.	155.	4.25	6.25	8.95	9.95	226.65	9.95
15000.	155.	3.65	5.25	8.15	10.25	226.95	10.25
16000.	155.	3.75	5.35	7.75	9.35	226.05	9.35
17000.	112.	3.25	4.85	7.75	8.35	225.05	8.35
18000.	107.	2.85	4.15	7.25	9.25	225.95	9.25
19000.	103.	2.55	3.75	7.35	8.15	224.85	8.15
20000.	95.	2.85	3.35	6.15	7.45	224.15	7.45
21000.	78.	3.55	4.05	5.95	6.35	223.05	6.35
22000.	74.	4.35	4.95	6.05	6.15	222.85	6.15
23000.	72.	5.05	5.45	6.35	6.55	223.25	6.55
24000.	67.	5.45	6.35	8.35	9.55	226.25	9.55
25000.	56.	6.75	7.75	9.35	11.05	227.75	11.05
26000.	43.	5.95	6.85	7.85	7.85	227.15	7.85
27000.	41.	4.85	5.75	7.55	7.65	229.95	7.65
28000.	32.	2.95	3.75	7.05	7.15	23[illegible].45	7.15

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (6)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

JUNE

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	280.15	-6.75	-6.85	-5.05	-1.95	0.75
1000.	150.	276.95	-4.75	-4.85	-3.55	0.25	3.95
2000.	150.	269.05	-6.15	-6.25	-3.45	0.35	3.85
3000.	150.	262.85	-5.85	-5.95	-3.45	1.25	4.95
4000.	150.	256.65	-5.55	-5.65	-2.25	2.25	5.55
5000.	150.	249.45	-6.25	-6.35	-3.05	2.65	5.75
6000.	150.	241.05	-8.15	-8.25	-3.95	2.55	5.85
7000.	150.	232.35	-10.35	-10.45	-4.85	1.85	5.05
8000.	150.	227.05	-9.15	-9.25	-5.35	0.25	3.95
9000.	150.	222.35	-7.35	-7.45	-6.05	-0.85	2.45
10000.	150.	216.05	-7.25	-7.35	-4.85	-1.35	1.65
11000.	150.	211.75	-5.05	-5.15	-2.95	-0.75	2.55
12000.	150.	209.15	-7.55	-7.65	-6.75	-3.95	0.45
13000.	150.	208.75	-7.95	-8.05	-6.25	-2.15	2.65
14000.	150.	211.65	-5.05	-5.15	-4.35	0.65	3.35
15000.	149.	213.85	-2.85	-2.95	-1.85	1.15	2.65
16000.	149.	213.85	-2.85	-2.95	-1.55	0.65	2.65
17000.	149.	213.35	-3.35	-3.45	-1.65	0.25	2.35
18000.	149.	213.45	-3.25	-3.35	-1.35	-0.15	1.75
19000.	149.	214.25	-2.45	-2.55	-1.55	0.25	2.45
20000.	149.	215.35	-1.35	-1.45	-0.35	1.25	2.85
21000.	139.	216.95	0.25	0.15	1.05	2.25	3.75
22000.	131.	218.35	1.65	1.55	2.05	3.25	4.65
23000.	128.	218.65	1.95	1.85	2.65	3.95	5.45
24000.	121.	218.15	1.45	1.35	3.25	5.15	6.35
25000.	111.	220.05	3.35	3.25	3.85	5.95	7.55
26000.	95.	221.05	1.75	1.65	2.75	4.45	6.15
27000.	81.	222.75	0.45	0.35	0.85	2.75	4.75
28000.	65.	222.95	-2.35	-2.45	-1.65	0.85	3.05
29000.	49.	224.35	-3.95	-4.05	-3.35	0.15	1.85
30000.	31.	225.05	-6.15	-6.25	-6.15	-2.05	1.05

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (AMMA) Form 600, 27 Sep 61 (One-Time)

Table V (6)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

JUNE

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	150.	2.45	3.95	6.45	6.75	293.65	6.75
1000.	150.	6.35	8.45	11.15	12.85	294.55	12.85
2000.	150.	6.45	8.25	10.75	13.45	288.65	13.45
3000.	150.	6.05	7.85	11.05	12.35	281.05	12.35
4000.	150.	6.65	8.55	10.85	12.35	274.55	12.35
5000.	150.	7.65	9.35	10.85	11.25	266.95	11.25
6000.	150.	7.25	8.85	10.25	11.35	260.55	11.35
7000.	150.	6.65	8.05	10.25	11.95	254.65	11.95
8000.	150.	5.55	7.05	9.55	11.35	247.55	11.35
9000.	150.	4.05	5.65	8.25	10.05	239.75	10.05
10000.	150.	3.15	4.35	7.25	9.15	232.45	9.15
11000.	150.	3.95	6.05	9.85	12.45	229.25	12.45
12000.	150.	2.65	6.45	10.55	13.95	230.65	13.95
13000.	150.	4.35	6.75	9.85	13.55	230.25	13.55
14000.	150.	4.35	6.15	8.95	9.95	226.65	9.95
15000.	149.	3.95	5.55	7.85	8.35	225.05	8.35
16000.	149.	3.65	4.65	7.05	7.65	224.35	7.65
17000.	149.	3.25	4.05	5.35	6.35	223.05	6.35
18000.	149.	2.75	3.65	4.85	5.35	222.05	5.35
19000.	149.	3.05	3.55	4.95	5.65	222.55	5.65
20000.	149.	3.45	4.25	5.65	6.75	223.45	6.75
21000.	139.	4.35	5.15	6.45	7.65	224.35	7.65
22000.	131.	5.05	5.85	7.75	8.25	224.95	8.25
23000.	128.	6.05	7.05	8.65	9.15	225.85	9.15
24000.	121.	7.15	7.95	9.25	10.05	226.75	10.05
25000.	111.	8.15	9.35	10.25	11.15	227.85	11.15
26000.	95.	6.75	7.75	8.95	9.65	228.55	9.65
27000.	81.	5.05	6.65	7.65	7.75	230.05	7.75
28000.	65.	3.85	4.85	6.75	7.65	232.95	7.65
29000.	49.	2.85	3.75	5.75	5.85	234.15	5.85
30000.	31.	1.85	2.45	4.25	4.35	235.55	4.35

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARMA) Form 600, 27 Sep 61 (One-Time)

Table V (7)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

JULY

Absolute Deviation from AFMC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	281.95	-4.95	-5.05	-3.55	-0.05	2.45
1000.	155.	280.55	-1.15	-1.25	-0.05	1.75	5.35
2000.	155.	273.05	-2.15	-2.25	-1.05	1.95	5.15
3000.	155.	267.25	-1.45	-1.55	-0.75	2.75	5.65
4000.	155.	261.55	-0.65	-0.75	1.35	3.45	6.55
5000.	155.	255.05	-0.65	-0.75	0.55	4.05	6.95
6000.	155.	247.55	-1.65	-1.75	0.05	3.65	7.05
7000.	155.	238.95	-3.75	-3.85	-1.15	2.95	6.55
8000.	155.	230.35	-5.65	-5.95	-1.55	1.65	5.85
9000.	155.	224.15	-5.55	-5.65	-1.85	0.35	4.45
10000.	155.	220.25	-3.05	-3.15	-2.15	0.25	3.75
11000.	155.	214.25	-2.55	-2.65	-0.75	2.25	5.55
12000.	155.	210.75	-5.95	-6.05	-3.35	-0.65	4.95
13000.	155.	208.55	-8.15	-8.25	-6.55	-0.55	4.95
14000.	155.	210.95	-5.75	-5.85	-3.85	0.25	4.05
15000.	155.	210.65	-6.05	-6.15	-4.25	-0.75	2.45
16000.	155.	212.05	-4.65	-4.75	-3.55	-1.45	1.75
17000.	155.	212.65	-4.05	-4.15	-3.25	-0.75	1.25
18000.	155.	214.05	-2.65	-2.75	-1.65	-0.05	1.65
19000.	155.	214.75	-1.95	-2.05	-1.25	0.35	2.35
20000.	155.	216.25	-0.45	-0.55	0.15	1.55	3.25
21000.	148.	216.85	0.15	0.05	1.15	2.55	4.45
22000.	138.	218.75	2.05	1.95	2.45	3.55	5.05
23000.	134.	218.25	1.55	1.45	2.55	4.55	6.05
24000.	133.	218.35	1.65	1.55	3.65	5.45	7.05
25000.	130.	220.75	4.05	3.95	5.05	6.55	8.25
26000.	125.	221.25	1.95	1.85	3.25	5.35	6.85
27000.	112.	222.25	-0.05	-0.15	1.05	3.75	5.65
28000.	87.	222.75	-2.55	-2.65	-2.05	1.95	4.05
29000.	68.	224.25	-4.05	-4.15	-2.15	0.75	2.65

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ABMA) Form 600, 27 Sep 61 (One-Time)

Table V (8)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria — **Period of Observation:** March 1954 - February 1959

AUGUST — **Absolute Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

[illegible]	NO. OBS.	[illegible]	[illegible]	.13 PERCENT	2.28 PERCENT	[illegible] PERCENT	[illegible] PERCENT
[illegible]	155.	[illegible]	[illegible]	-4.05	[illegible]	[illegible]	1.65
[illegible]	155.	[illegible]	[illegible]	-2.15	-0.45	1.75	5.15
[illegible]	155.	[illegible]	[illegible]	-1.35	-0.45	1.35	5.25
[illegible]	155.	[illegible]	[illegible]	-0.75	-0.25	1.85	5.75
[illegible]	155.	[illegible]	0.55	0.45	1.15	[illegible]	6.75
[illegible]	155.	[illegible]	-0.35	-0.45	0.55	[illegible]	7.05
[illegible]	155.	247.35	-1.85	-1.95	-0.05	[illegible]	6.85
[illegible]	155.	[illegible]	-3.35	-3.45	-0.35	[illegible]	6.35
[illegible]	155.	[illegible]	-3.45	-3.55	-1.15	1.35	5.65
[illegible]	155.	220.25	-3.45	-3.55	-2.55	0.15	4.05
[illegible]	155.	219.05	-4.25	-4.35	-3.85	-1.05	2.75
[illegible]	155.	214.25	-2.55	-2.65	-1.15	1.25	5.15
[illegible]	155.	211.25	-5.45	-5.55	-2.75	-0.25	3.65
[illegible]	155.	210.05	-6.65	-6.75	-3.85	-0.35	3.95
[illegible]	155.	208.95	-7.15	-7.25	-3.95	-1.45	3.15
[illegible]	155.	211.05	-5.65	-5.75	-4.35	-1.35	2.45
[illegible]	155.	209.15	-7.55	-7.65	-2.65	-1.65	2.25
[illegible]	155.	211.35	-5.35	-5.45	-4.95	-0.55	2.25
[illegible]	155.	212.75	-3.95	-4.05	-3.05	-0.25	2.45
[illegible]	155.	214.75	-1.95	-2.05	-1.15	0.65	2.55
[illegible]	155.	216.15	-0.55	-0.65	0.15	1.55	3.05
[illegible]	138.	215.95	-0.75	-0.85	0.65	2.25	3.75
[illegible]	124.	216.25	-0.45	-0.55	0.55	2.65	4.75
[illegible]	119.	217.55	0.85	0.75	0.85	2.25	5.45
[illegible]	111.	218.15	1.45	1.35	2.05	4.25	6.25
[illegible]	105.	219.65	2.95	2.85	4.25	5.45	7.45
[illegible]	96.	220.45	1.15	1.05	2.85	4.35	6.15
[illegible]	83.	221.15	-1.15	-1.25	1.85	2.75	4.65
[illegible]	60.	222.25	-3.05	-3.15	-1.15	0.95	2.25
[illegible]	44.	223.15	-2.15	-2.25	-1.95	-1.05	0.85

Note: When less than 30 observations were available, frequency distribution data were excluded.

AOMC (ABMA) Form 600, 27 Sep 61 (One-Time)

Table V (7)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

JULY

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE TEMPERATURE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	155.	3.45	5.35	10.75	14.45	301.35	14.45
1000.	155.	7.55	9.55	16.55	18.35	300.05	18.35
2000.	155.	7.05	9.15	15.35	17.45	292.65	17.45
3000.	155.	7.05	9.05	14.05	15.15	283.85	15.15
4000.	155.	7.95	9.55	13.25	13.75	275.95	13.75
5000.	155.	8.85	10.25	12.95	14.65	270.55	14.85
6000.	155.	8.75	10.65	12.35	14.75	263.95	14.75
7000.	155.	8.45	10.25	13.05	13.45	256.15	13.45
8000.	155.	8.05	9.35	12.05	12.65	248.85	12.65
9000.	155.	6.25	7.95	10.85	11.25	240.95	11.25
10000.	155.	5.85	7.15	9.75	12.35	235.65	12.35
11000.	155.	7.15	9.45	13.15	15.25	232.05	15.25
12000.	155.	7.05	9.45	13.05	14.15	230.85	14.15
13000.	155.	6.85	8.95	11.55	12.75	229.45	12.75
14000.	155.	5.65	7.65	10.15	11.15	227.85	11.15
15000.	155.	4.85	6.45	9.25	10.35	227.05	10.35
16000.	155.	3.45	5.25	7.05	7.45	224.15	7.45
17000.	155.	2.95	4.35	6.15	8.25	224.95	8.25
18000.	155.	2.55	3.65	5.05	5.75	222.45	5.75
19000.	155.	3.15	4.15	5.55	7.25	223.95	7.25
20000.	155.	4.05	5.15	6.35	6.95	223.65	6.95
21000.	148.	5.35	6.05	7.85	8.05	224.75	8.05
22000.	138.	5.85	6.85	8.25	8.85	225.55	8.85
23000.	134.	6.85	7.75	8.95	9.65	226.35	9.65
24000.	133.	7.85	8.85	10.15	11.35	228.05	11.35
25000.	130.	9.05	9.95	11.45	13.35	230.05	13.35
26000.	125.	7.75	8.55	10.45	11.55	230.85	11.55
27000.	112.	5.95	7.35	8.75	10.85	233.15	10.85
28000.	87.	4.75	5.45	7.25	8.25	233.55	8.25
29000.	68.	3.55	3.95	5.75	6.75	235.05	6.75

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (8)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

AUGUST — **Absolute Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	282.35	-4.55	-4.65	-2.55	-0.35	1.65
1000.	155.	279.65	-2.05	-2.15	-0.45	1.75	5.15
2000.	155.	273.65	-1.55	-1.65	-0.45	1.35	5.25
3000.	155.	268.05	-0.65	-0.75	-0.25	1.85	5.75
4000.	155.	262.75	0.55	0.45	1.15	3.05	6.75
5000.	155.	255.35	-0.35	-0.45	0.55	3.55	7.05
6000.	155.	247.35	-1.85	-1.95	-0.05	3.95	6.85
7000.	155.	239.35	-3.35	-3.45	-0.35	2.85	6.35
8000.	155.	232.75	-3.45	-3.55	-1.15	1.35	5.65
9000.	155.	226.25	-3.45	-3.55	-2.55	0.15	4.05
10000.	155.	219.05	-4.25	-4.35	-3.85	-0.05	3.75
11000.	155.	214.25	-2.55	-2.65	-1.15	1.25	5.15
12000.	155.	211.25	-5.45	-5.55	-2.75	-0.25	3.65
13000.	155.	210.05	-6.65	-6.75	-3.85	-0.35	3.95
14000.	155.	209.55	-7.15	-7.25	-3.95	-1.45	3.15
15000.	155.	211.05	-5.65	-5.75	-4.35	-1.35	2.45
16000.	155.	209.15	-7.55	-7.65	-3.65	-1.65	2.25
17000.	155.	211.35	-5.35	-5.45	-4.95	-0.95	2.25
18000.	155.	212.75	-3.95	-4.05	-3.05	-0.25	2.45
19000.	155.	214.75	-1.95	-2.05	-1.15	0.65	2.55
20000.	155.	216.15	-0.55	-0.65	0.15	1.55	3.05
21000.	138.	215.95	-0.75	-0.85	0.65	2.25	3.75
22000.	124.	216.25	-0.45	-0.55	0.55	2.65	4.75
23000.	119.	217.55	0.85	0.75	0.85	3.25	5.45
24000.	111.	218.15	1.45	1.35	2.05	4.25	6.25
25000.	105.	219.65	2.95	2.85	4.25	5.45	7.45
26000.	98.	220.45	1.15	1.05	2.85	4.35	6.15
27000.	93.	221.15	-1.15	-1.25	1.85	2.75	4.65
28000.	60.	222.25	-3.05	-3.15	-1.15	0.85	2.25
29000.	44.	226.15	-2.15	-2.25	-1.95	-1.05	0.85

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARMA) Form 600, 27 Sep 61 (One-Time)

Table V (8)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

AUGUST

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	155.	2.75	4.95	7.35	11.45	298.35	11.45
1000.	155.	7.15	8.75	12.75	18.35	300.05	18.35
2000.	155.	6.75	9.05	15.45	18.95	294.15	18.95
3000.	155.	7.55	9.85	13.75	15.95	284.65	15.95
4000.	155.	8.35	10.25	12.75	13.75	275.95	13.75
5000.	155.	9.05	10.55	12.95	14.95	270.65	14.95
6000.	155.	8.95	10.45	12.55	13.55	262.75	13.55
7000.	155.	8.75	10.05	12.05	12.95	255.65	12.95
8000.	155.	7.75	9.55	11.15	12.55	248.75	12.55
9000.	155.	6.35	7.95	9.65	11.15	240.85	11.15
10000.	155.	5.75	7.05	9.75	10.45	233.75	10.45
11000.	155.	6.95	8.45	12.05	15.05	231.85	15.05
12000.	155.	5.85	8.25	11.45	13.45	230.15	13.45
13000.	155.	6.05	7.45	9.35	10.25	226.95	10.25
14000.	155.	4.75	6.25	8.35	8.85	225.55	8.85
15000.	155.	4.05	5.55	7.85	8.45	225.15	8.45
16000.	155.	3.85	4.95	7.05	7.75	224.45	7.75
17000.	155.	3.25	4.75	6.45	8.05	224.75	8.05
18000.	155.	3.25	4.65	6.45	7.45	224.15	7.45
19000.	155.	3.65	4.65	7.35	8.95	225.65	8.95
20000.	155.	4.35	5.35	7.35	7.95	224.65	7.95
21000.	138.	4.65	6.15	7.45	7.75	224.45	7.75
22000.	124.	5.55	6.45	8.05	8.75	225.45	8.75
23000.	119.	6.35	7.65	9.25	9.85	226.55	9.85
24000.	111.	7.15	8.65	10.75	11.15	227.65	11.15
25000.	105.	8.35	9.75	11.85	12.65	229.35	12.65
26000.	98.	6.85	7.95	10.35	10.65	229.95	10.65
27000.	93.	5.65	6.75	8.45	8.55	230.85	8.55
28000.	60.	3.35	4.35	5.55	6.65	231.95	6.65
29000.	44.	1.85	2.85	4.75	4.85	233.15	4.85

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (9)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

SEPTEMBER

Absolute Deviation from AFMC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	278.65	-9.25	-8.35	-7.55	-4.55	-0.65
1000.	150.	272.35	-9.35	-9.45	-4.45	-1.65	3.45
2000.	150.	263.95	-11.25	-11.35	-5.05	-1.65	4.45
3000.	150.	259.05	-9.65	-9.75	-5.05	0.25	5.25
4000.	150.	251.85	-10.35	-10.45	-4.55	1.75	6.35
5000.	150.	246.55	-9.15	-9.25	-5.05	1.95	6.75
6000.	150.	240.85	-8.35	-8.45	-4.55	1.85	6.55
7000.	150.	233.15	-9.55	-9.65	-5.85	1.95	6.05
8000.	150.	227.15	-9.05	-9.15	-6.95	1.35	5.15
9000.	150.	221.25	-8.45	-8.55	-4.45	0.35	3.75
10000.	150.	219.45	-3.85	-3.95	-2.15	0.15	3.05
11000.	150.	214.65	-2.15	-2.25	-1.05	0.65	3.35
12000.	150.	207.65	-9.05	-9.15	-6.65	-4.05	-1.55
13000.	149.	204.45	-12.25	-12.35	-9.05	-4.95	-0.65
14000.	149.	207.75	-8.95	-9.05	-7.75	-4.55	-1.05
15000.	149.	208.05	-8.65	-8.75	-6.55	-4.05	-1.05
16000.	149.	209.35	-7.35	-7.45	-6.15	-3.65	-0.95
17000.	149.	210.35	-6.35	-6.45	-5.45	-3.05	-0.85
18000.	149.	212.05	-4.65	-4.75	-4.35	-2.25	-0.25
19000.	149.	211.25	-5.45	-5.55	-3.55	-2.05	0.35
20000.	149.	212.75	-3.95	-4.05	-2.55	-1.45	0.85
21000.	116.	214.25	-2.45	-2.55	-2.25	-1.15	0.85
22000.	115.	213.65	-3.05	-3.15	-1.75	-0.65	1.15
23000.	112.	214.35	-2.35	-2.45	-1.45	-0.35	1.75
24000.	111.	214.15	-2.55	-2.65	-2.15	0.35	2.95
25000.	105.	215.65	-1.05	-1.15	-0.65	1.15	3.75
26000.	97.	216.95	-2.35	-2.45	-2.15	-0.35	2.65
27000.	80.	217.55	-4.75	-4.85	-4.35	-2.15	1.25
28000.	66.	216.15	-9.15	-9.25	-6.45	-4.45	-0.05
29000.	46.	220.55	-7.75	-7.85	-6.75	-4.95	-1.95

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (9)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

SEPTEMBER

Absolute Deviation from AMC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	150.	1.25	2.65	4.65	6.45	293.35	6.45
1000.	150.	5.65	7.95	11.05	15.35	297.05	15.35
2000.	150.	6.85	8.55	11.45	15.95	291.15	15.95
3000.	150.	7.05	8.85	11.35	14.15	282.85	14.15
4000.	150.	7.85	9.05	11.85	13.05	275.25	13.05
5000.	150.	7.95	9.15	12.05	13.75	269.45	13.75
6000.	150.	7.95	9.45	11.65	13.15	262.35	13.15
7000.	150.	7.45	8.55	11.35	12.25	254.95	12.25
8000.	150.	6.65	7.85	10.25	10.55	246.75	10.55
9000.	150.	4.95	6.45	8.85	9.95	239.65	9.95
10000.	150.	4.05	5.15	7.95	9.85	233.15	9.85
11000.	150.	4.25	5.75	10.65	11.65	228.45	11.65
12000.	150.	0.65	3.35	8.45	10.75	227.45	10.75
13000.	149.	1.15	3.35	7.85	11.45	228.15	11.45
14000.	149.	0.85	2.05	7.75	8.35	225.05	8.35
15000.	149.	0.35	2.35	6.45	8.55	225.25	8.55
16000.	149.	0.15	1.75	5.95	8.25	224.95	8.25
17000.	149.	0.45	2.05	6.35	8.05	224.75	8.05
18000.	149.	0.65	2.05	6.05	7.85	224.55	7.85
19000.	149.	1.15	2.75	6.25	7.55	224.25	7.55
20000.	149.	1.55	2.85	7.05	7.85	224.55	7.85
21000.	116.	1.95	3.45	6.45	8.15	224.85	8.15
22000.	115.	2.55	4.05	6.55	8.35	225.05	8.35
23000.	112.	3.25	4.45	6.75	10.35	227.05	10.35
24000.	111.	4.25	5.15	7.15	8.25	224.95	8.25
25000.	105.	5.25	6.25	7.95	8.25	224.95	8.25
26000.	97.	3.95	4.85	6.65	7.55	226.85	7.55
27000.	80.	2.15	3.65	4.75	4.95	227.25	4.95
28000.	66.	0.85	1.65	2.55	3.35	228.65	3.35
29000.	46.	-0.95	0.25	1.15	1.65	229.95	1.65

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (10)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

OCTOBER

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	270.95	-15.95	-16.05	-11.65	-8.65	-5.55
1000.	154.	271.05	-10.65	-10.75	-9.25	-6.45	-1.85
2000.	154.	264.05	-11.15	-11.25	-9.15	-5.15	1.15
3000.	154.	257.85	-10.85	-10.95	-9.35	-3.25	3.55
4000.	154.	250.75	-11.45	-11.55	-10.55	-2.25	4.65
5000.	154.	242.75	-12.95	-13.05	-9.55	-1.55	4.65
6000.	154.	233.85	-15.35	-15.45	-11.35	-2.45	4.15
7000.	154.	226.55	-16.15	-16.25	-13.05	-3.45	3.45
8000.	154.	220.85	-15.35	-15.45	-13.35	-3.35	2.15
9000.	154.	217.15	-12.55	-12.65	-9.95	-4.25	0.75
10000.	154.	214.55	-8.75	-8.85	-7.95	-3.85	0.25
11000.	154.	209.55	-7.25	-7.35	-5.25	-1.95	1.05
12000.	154.	207.25	-9.45	-9.55	-8.35	-6.25	-2.85
13000.	153.	201.15	-15.55	-15.65	-11.65	-7.25	-3.05
14000.	153.	204.25	-12.45	-12.55	-11.45	-7.35	-3.55
15000.	153.	205.25	-11.45	-11.55	-11.05	-7.15	-3.65
16000.	153.	206.65	-10.05	-10.15	-9.55	-6.95	-3.95
17000.	148.	208.15	-8.55	-8.65	-7.95	-5.75	-3.15
18000.	148.	209.25	-7.45	-7.55	-6.85	-4.75	-2.85
19000.	148.	208.95	-7.75	-7.85	-6.05	-4.75	-2.65
20000.	148.	209.75	-6.95	-7.05	-6.25	-4.45	-2.35
21000.	107.	210.55	-6.15	-6.25	-5.85	-4.25	-2.35
22000.	105.	210.15	-6.55	-6.65	-6.25	-4.55	-2.35
23000.	100.	208.75	-7.95	-8.05	-6.05	-4.25	-1.55
24000.	93.	211.15	-5.55	-5.65	-5.45	-3.45	-0.65
25000.	85.	211.65	-5.05	-5.15	-5.05	-2.65	-0.25
26000.	72.	212.05	-7.25	-7.35	-7.15	-4.45	-1.45
27000.	62.	212.15	-10.15	-10.25	-8.75	-6.25	-2.95
28000.	49.	213.15	-12.15	-12.25	-11.25	-8.25	-6.25

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARMA) Form 600, 27 Sep 61 (One-Time)

Table V (10)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

OCTOBER

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	155.	-3.95	-1.65	2.35	4.45	291.25	4.45
1000.	154.	0.45	2.75	8.45	10.95	292.65	10.95
2000.	154.	3.75	5.85	9.95	11.25	286.45	11.25
3000.	154.	5.05	6.85	10.05	12.35	281.05	12.35
4000.	154.	5.95	8.05	10.95	12.75	274.95	12.75
5000.	154.	6.05	8.05	10.35	11.15	266.85	11.15
6000.	154.	5.35	7.15	9.65	10.35	259.55	10.35
7000.	154.	4.65	6.45	8.65	9.65	252.35	9.65
8000.	154.	3.25	5.35	7.75	8.95	245.15	8.95
9000.	154.	1.85	3.65	6.85	7.55	237.25	7.55
10000.	154.	1.45	3.05	6.35	7.35	230.65	7.35
11000.	154.	2.15	4.15	8.95	11.15	227.95	11.15
12000.	154.	0.25	3.05	8.15	9.55	226.25	9.55
13000.	153.	-0.15	2.35	6.95	10.35	227.05	10.35
14000.	153.	-1.75	1.35	7.05	9.75	226.45	9.75
15000.	153.	-1.75	0.75	5.25	14.15	230.85	14.15
16000.	153.	-2.15	0.35	5.35	7.85	224.55	7.85
17000.	148.	-2.15	0.05	5.35	7.15	223.85	7.15
18000.	148.	-1.75	0.45	4.35	5.35	222.05	5.35
19000.	148.	-1.65	-0.25	2.25	4.05	220.75	4.05
20000.	148.	-1.65	-0.35	1.65	3.65	220.35	3.65
21000.	107.	-1.45	-0.45	2.45	5.35	222.05	5.35
22000.	105.	-0.75	0.45	2.35	2.45	219.15	2.45
23000.	100.	-0.25	1.35	3.95	4.25	220.95	4.25
24000.	93.	0.55	2.35	5.35	5.55	222.25	5.55
25000.	85.	1.55	3.35	6.55	7.05	223.75	7.05
26000.	72.	0.35	1.45	3.85	5.15	224.45	5.15
27000.	62.	-1.55	-0.25	3.45	3.55	225.85	3.55
28000.	49.	-3.55	-1.45	0.35	0.85	226.15	0.85

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (11)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

NOVEMBER

Absolute Deviation from AMRC Model Atmosphere, 1959

CUMULATIVE DEVIATION FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	264.95	-21.95	-22.05	-18.65	-13.25	-9.65
1000.	150.	262.85	-18.85	-18.95	-17.05	-12.35	-7.65
2000.	150.	255.45	-19.75	-19.85	-14.95	-9.85	-3.15
3000.	150.	253.05	-15.65	-15.75	-13.85	-7.55	-0.85
4000.	150.	244.75	-17.45	-17.55	-12.25	-5.75	0.05
5000.	150.	237.05	-18.65	-18.75	-11.35	-5.05	0.25
6000.	150.	230.55	-18.65	-18.75	-10.95	-5.85	-0.85
7000.	150.	224.55	-18.15	-18.25	-12.35	-6.85	-1.65
8000.	150.	219.15	-17.05	-17.15	-12.15	-7.65	-3.05
9000.	150.	216.45	-13.25	-13.35	-11.65	-8.35	-4.55
10000.	150.	211.65	-11.65	-11.75	-10.35	-7.55	-4.35
11000.	150.	206.15	-10.65	-10.75	-8.95	-5.55	-2.45
12000.	150.	203.95	-12.75	-12.85	-11.65	-8.05	-3.05
13000.	150.	203.65	-13.05	-13.15	-11.15	-6.95	-2.15
14000.	150.	206.15	-10.55	-10.65	-9.25	-6.65	-2.65
15000.	150.	205.15	-11.55	-11.65	-9.35	-6.65	-3.15
16000.	146.	206.15	-10.55	-10.65	-9.75	-6.65	-3.25
17000.	137.	205.45	-11.25	-11.35	-9.65	-6.55	-3.65
18000.	137.	203.85	-12.85	-12.95	-10.55	-7.15	-3.75
19000.	136.	203.85	-12.85	-12.95	-10.85	-7.75	-4.35
20000.	135.	202.45	-14.25	-14.35	-12.85	-8.05	-4.85
21000.	95.	202.55	-14.15	-14.25	-13.85	-9.55	-4.45
22000.	91.	201.85	-14.85	-14.95	-13.45	-10.55	-4.65
23000.	85.	201.25	-15.40	-15.40	-12.70	-10.05	-4.55
24000.	80.	202.95	-13.70	-13.70	-13.35	-10.45	-4.55
25000.	65.	202.75	-13.90	-13.90	-13.80	-9.75	-3.95
26000.	57.	201.95	-17.40	-17.40	-16.20	-12.25	-6.15
27000.	50.	203.65	-18.65	-18.75	-16.75	-16.05	-9.25
28000.	35.	205.05	-20.25	-20.35	-20.25	-15.95	-12.05

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AMRA) Form 600, 27 Sep 61 (One-Time)

Table V (11)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

NOVEMBER

Absolute Deviation from AFMC Model Atmosphere, 1959

CUMULATIVE DISTRIBUTION FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	150.	-8.35	-6.35	-2.55	0.45	287.35	0.45
1000.	150.	-5.85	-3.05	1.65	5.35	287.05	5.35
2000.	150.	-0.25	1.75	4.65	8.15	283.35	8.15
3000.	150.	1.05	2.85	5.55	6.85	275.55	6.85
4000.	150.	1.75	3.95	6.15	8.85	271.05	8.85
5000.	150.	1.65	3.25	5.85	9.65	265.35	9.65
6000.	150.	1.15	2.35	6.15	8.85	258.05	8.85
7000.	150.	0.15	1.25	5.45	7.45	250.15	7.45
8000.	150.	-1.45	-0.05	3.85	6.25	242.45	6.25
9000.	150.	-3.25	-1.35	2.65	5.05	234.75	5.05
10000.	150.	-3.25	-1.75	2.25	4.25	227.55	4.25
11000.	150.	-0.65	1.05	3.95	6.55	223.35	6.55
12000.	150.	-0.45	1.35	4.35	8.75	225.45	8.75
13000.	150.	-0.45	1.45	3.55	5.75	222.45	5.75
14000.	150.	-0.85	0.75	2.55	3.55	220.25	3.55
15000.	150.	-1.65	-0.15	1.95	3.35	220.05	3.35
16000.	146.	-2.25	-0.95	0.85	6.25	222.95	6.25
17000.	137.	-2.25	-1.25	0.45	1.05	217.75	1.05
18000.	137.	-2.75	-1.55	-0.35	0.25	216.95	0.25
19000.	136.	-3.05	-1.85	0.55	1.05	217.75	1.05
20000.	135.	-3.55	-2.55	-0.45	1.15	217.65	1.15
21000.	95.	-3.35	-2.55	0.05	2.15	218.65	2.15
22000.	91.	-3.55	-2.45	0.45	1.45	218.15	1.45
23000.	85.	-3.05	-1.65	0.85	1.05	217.75	1.05
24000.	80.	-2.65	-1.25	1.85	4.35	221.05	4.35
25000.	65.	-2.55	-1.05	0.45	3.55	220.25	3.55
26000.	57.	-4.95	-3.25	-1.05	0.05	219.35	0.05
27000.	50.	-8.15	-5.85	-2.25	-1.25	221.05	-1.25
28000.	35.	-10.35	-6.35	-1.75	-1.65	223.65	-1.65

Note: When less than 30 observations were available, frequency distribution data were excluded.

AFMC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (12)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

DECEMBER

Absolute Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	264.35	-22.55	-22.65	-19.25	-15.75	-11.65
1000.	155.	262.75	-13.95	-19.05	-16.95	-13.35	-8.95
2000.	155.	254.75	-20.45	-20.55	-15.85	-11.05	-6.05
3000.	155.	252.75	-15.95	-16.05	-14.35	-9.55	-4.05
4000.	155.	245.35	-16.85	-16.95	-14.75	-9.15	-3.55
5000.	155.	237.05	-18.65	-18.75	-15.85	-9.35	-3.65
6000.	155.	228.85	-20.35	-20.45	-14.95	-9.55	-4.35
7000.	155.	223.15	-19.55	-19.65	-15.55	-10.55	-5.45
8000.	155.	216.65	-19.55	-19.65	-15.95	-11.35	-6.35
9000.	155.	213.05	-16.65	-16.75	-14.65	-10.65	-6.95
10000.	155.	209.65	-13.65	-13.75	-11.45	-8.25	-5.25
11000.	155.	206.15	-10.65	-10.75	-10.05	-6.05	-1.95
12000.	155.	200.65	-16.05	-16.15	-14.85	-7.85	-1.95
13000.	155.	202.75	-13.95	-14.05	-12.05	-6.65	-0.75
14000.	154.	203.75	-12.95	-13.05	-11.15	-5.25	-1.05
15000.	154.	203.95	-12.75	-12.85	-9.95	-5.55	-1.45
16000.	139.	206.25	-10.45	-10.55	-9.75	-6.05	-2.35
17000.	128.	203.75	-12.95	-13.05	-11.65	-5.95	-2.45
18000.	125.	199.35	-17.35	-17.45	-10.25	-6.15	-2.75
19000.	125.	204.85	-11.85	-11.95	-10.35	-5.95	-3.35
20000.	123.	207.05	-9.65	-9.75	-9.35	-6.55	-3.45
21000.	100.	204.35	-12.35	-12.45	-10.75	-6.85	-3.75
22000.	92.	200.15	-16.55	-16.65	-13.15	-6.95	-4.15
23000.	83.	201.75	-14.90	-14.90	-14.20	-7.95	-4.55
24000.	82.	203.35	-13.35	-13.45	-13.35	-9.25	-4.05
25000.	77.	203.15	-13.50	-13.50	-13.40	-8.65	-5.15
26000.	61.	202.25	-17.10	-17.10	-16.30	-10.85	-7.35
27000.	48.	202.45	-19.90	-19.90	-18.90	-13.55	-9.75
28000.	33.	205.15	-20.15	-20.25	-20.15	-16.05	-13.15

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACIC (AIMA) Form 600, 27 Sep 61 (One-Time)

Table V (12)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

DECEMBER

Absolute Deviation from AGMC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	155.	-9.65	-8.05	-4.35	-1.55	285.35	-1.55
1000.	155.	-6.35	-3.95	-0.65	1.75	283.45	1.75
2000.	155.	-4.25	-1.85	4.45	6.65	281.85	6.65
3000.	155.	-2.35	-0.35	4.45	6.85	275.55	6.85
4000.	155.	-1.85	0.35	3.95	6.65	268.85	6.65
5000.	155.	-2.35	-0.05	4.05	5.45	261.15	5.45
6000.	155.	-2.45	-0.75	3.35	5.45	254.65	5.45
7000.	155.	-3.35	-1.45	2.45	4.35	247.05	4.35
8000.	155.	-4.75	-2.55	1.15	3.75	239.95	3.75
9000.	155.	-5.85	-3.65	-0.65	2.45	232.15	2.45
10000.	155.	-3.75	-2.35	0.95	4.55	227.85	4.55
11000.	155.	-0.05	3.75	7.95	10.65	227.45	10.65
12000.	155.	0.35	3.25	8.85	9.45	226.15	9.45
13000.	155.	1.05	3.55	6.75	8.45	225.15	8.45
14000.	154.	0.85	2.45	5.35	8.85	225.55	8.85
15000.	154.	0.15	1.65	3.75	9.85	226.55	9.85
16000.	139.	-0.65	1.15	3.15	3.45	220.15	3.45
17000.	128.	-0.95	0.55	2.75	4.05	220.75	4.05
18000.	125.	-1.55	-0.05	2.25	2.45	219.15	2.45
19000.	125.	-1.95	-0.85	1.85	2.45	219.15	2.45
20000.	123.	-2.55	-0.75	1.25	3.75	220.55	3.75
21000.	100.	-2.25	-1.05	1.25	3.65	220.35	3.65
22000.	92.	-2.85	-1.55	1.35	4.75	221.45	4.75
23000.	83.	-3.15	-1.55	2.95	6.35	223.05	6.35
24000.	82.	-3.25	-1.65	2.45	2.75	219.45	2.75
25000.	77.	-3.15	-1.25	2.35	2.85	219.55	2.85
26000.	61.	-5.45	-3.25	0.75	2.25	221.55	2.25
27000.	48.	-8.65	-5.35	-1.75	1.15	223.45	1.15
28000.	33.	-10.25	-8.25	-4.35	-4.25	221.05	-4.25

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table V (13)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

ANNUAL

Absolute Deviation from AGMC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM TEMP.	ABSOLUTE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	1826.	250.95	-35.95	-31.25	-21.05	-13.95	-6.25
1000.	1825.	247.95	-33.75	-27.45	-18.15	-11.65	-2.85
2000.	1825.	249.65	-25.55	-24.55	-16.55	-9.35	-1.25
3000.	1825.	244.85	-23.85	-22.75	-16.35	-7.95	-0.05
4000.	1825.	237.25	-24.95	-22.75	-16.45	-7.25	0.95
5000.	1825.	232.15	-23.55	-23.35	-16.45	-7.45	0.75
6000.	1825.	223.75	-25.45	-24.15	-16.75	-8.05	0.05
7000.	1825.	219.15	-23.55	-22.75	-16.15	-9.05	-0.85
8000.	1825.	215.25	-20.95	-19.65	-15.35	-9.65	-2.05
9000.	1824.	211.45	-18.25	-17.65	-13.75	-9.55	-3.25
10000.	1824.	209.05	-14.25	-13.75	-11.05	-7.45	-2.25
11000.	1824.	201.25	-15.55	-13.25	-8.95	-4.35	1.15
12000.	1824.	200.55	-16.15	-15.85	-11.35	-5.45	0.25
13000.	1822.	198.95	-17.75	-15.25	-10.35	-4.55	1.05
14000.	1821.	201.75	-14.95	-13.05	-8.95	-3.95	0.95
15000.	1820.	201.15	-15.55	-12.85	-8.85	-3.95	0.45
16000.	1755.	201.65	-15.05	-13.25	-8.55	-4.25	0.05
17000.	1672.	199.95	-16.75	-15.65	-9.05	-4.25	-0.15
18000.	1658.	198.65	-18.05	-17.45	-9.55	-4.25	-0.25
19000.	1651.	198.65	-18.05	-15.95	-9.95	-4.45	-0.05
20000.	1625.	197.95	-18.75	-15.75	-9.45	-4.45	0.25
21000.	1314.	196.65	-20.05	-16.05	-10.05	-4.15	1.45
22000.	1236.	195.45	-21.25	-16.55	-10.65	-4.45	1.75
23000.	1153.	196.05	-20.60	-18.30	-11.00	-3.95	2.55
24000.	1072.	201.45	-15.20	-13.45	-10.55	-3.55	3.65
25000.	954.	202.75	-13.90	-13.25	-10.15	-2.85	5.05
26000.	828.	201.95	-17.40	-16.20	-12.15	-4.35	4.05
27000.	701.	202.45	-19.90	-19.80	-14.45	-5.85	2.75
28000.	537.	205.05	-20.25	-20.25	-16.15	-7.65	0.95
29000.	330.	204.55	-23.75	-23.85	-16.65	-6.35	0.25
30000.	170.	204.15	-27.05	-27.15	-21.15	-7.75	-2.05
31000.	87.	210.65	-23.55	-23.65	-22.05	-7.05	-3.95

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ARMA) Form 600, 27 Sep 61 (One-Time)

Table V (13)

FREQUENCY DISTRIBUTIONS OF TEMPERATURE

VIENNA, Austria

Period of Observation: March 1954 - February 1959

ANNUAL

Absolute Deviation from AMC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM TEMP.	ABSOLUTE DEVIATION
5.	1826.	-1.55	1.75	5.75	11.45	301.35	14.45
1000.	1825.	1.65	5.55	10.95	17.15	300.05	18.35
2000.	1825.	2.55	5.95	10.85	16.85	294.15	18.95
3000.	1825.	3.35	6.35	10.65	15.05	284.65	15.95
4000.	1825.	4.25	7.05	10.95	13.35	275.95	13.75
5000.	1825.	4.45	7.55	11.25	14.25	270.65	14.95
6000.	1825.	4.05	7.25	11.25	13.85	263.95	14.75
7000.	1825.	3.45	6.75	10.65	13.15	256.15	13.45
8000.	1825.	2.15	5.75	9.85	12.35	248.85	12.65
9000.	1824.	0.75	4.35	8.45	11.05	240.95	11.25
10000.	1824.	0.75	3.65	7.55	10.25	235.65	12.35
11000.	1824.	3.55	5.95	10.35	14.15	232.05	15.25
12000.	1824.	2.95	5.95	10.55	13.95	231.15	14.45
13000.	1822.	3.35	5.75	9.65	13.05	230.25	13.55
14000.	1821.	2.95	5.15	8.35	11.15	228.45	11.75
15000.	1820.	2.35	4.35	7.45	10.25	230.85	14.15
16000.	1755.	1.75	3.95	6.75	8.65	226.35	9.65
17000.	1672.	1.55	3.35	6.15	8.25	225.35	8.65
18000.	1658.	1.45	3.15	5.75	8.15	225.95	9.25
19000.	1651.	1.55	3.25	5.95	9.25	230.15	13.45
20000.	1625.	2.15	3.65	6.55	11.85	230.35	13.65
21000.	1314.	3.25	4.65	7.45	13.05	231.45	14.75
22000.	1236.	3.85	5.25	7.75	17.55	237.85	21.15
23000.	1153.	4.75	6.15	8.95	19.35	236.45	19.75
24000.	1072.	5.65	7.25	10.15	21.55	238.85	22.15
25000.	954.	6.95	8.45	11.45	24.45	241.35	24.65
26000.	828.	5.85	7.25	10.35	27.25	248.65	29.35
27000.	701.	4.55	5.85	8.55	24.15	246.55	24.25
28000.	537.	2.65	4.25	7.45	25.95	251.35	26.05
29000.	330.	1.75	2.85	5.75	24.35	252.65	24.35
30000.	170.	-0.05	1.15	3.25	5.65	236.85	5.65
31000.	87.	-2.05	-0.45	2.65	3.65	237.85	3.65

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AFMA) Form 600, 27 Sep 61 (One-Time)

Table VI (1)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria | **Period of Observation: March 1954 - February 1959**

JANUARY | **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE (FEET)	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
[illegible]	155.	0.12340	0.70	0.69	1.44	3.64	5.59
[illegible]	155.	0.11130	-1.25	-2.03	-0.79	1.23	3.97
[illegible]	155.	0.09960	-3.02	-3.12	-1.36	0.10	2.14
[illegible]	155.	0.09030	-2.59	-2.70	-1.40	-0.00	1.62
[illegible]	155.	0.08160	-2.28	-2.40	-1.56	-0.24	1.08
[illegible]	155.	0.07370	-1.98	-2.00	-1.46	-0.27	1.07
[illegible]	155.	0.06620	-1.67	-1.78	-1.04	-0.15	1.19
[illegible]	155.	0.05800	-2.58	-2.66	-1.33	-0.08	1.16
[illegible]	155.	0.05185	-3.36	-3.45	-2.42	-0.47	1.03
[illegible]	155.	0.04420	-7.14	-7.25	-4.73	-1.47	1.05
[illegible]	155.	0.03785	-10.20	-10.32	-8.19	-4.27	0.12
[illegible]	155.	0.03225	-13.31	-13.44	-11.29	-7.80	-2.55
[illegible]	155.	0.02760	-13.21	-13.36	-11.16	-8.02	-3.46
[illegible]	155.	0.02400	-11.76	-11.95	-10.48	-7.54	-4.23
[illegible]	155.	0.02090	-10.11	-10.32	-9.46	-7.53	-3.87
[illegible]	155.	0.01800	-9.55	-9.80	-9.05	-7.29	-4.27
[illegible]	147.	0.01545	-9.12	-9.41	-8.82	-6.76	-4.12
[illegible]	147.	0.01320	-8.97	-9.10	-8.41	-6.07	-3.59
[illegible]	146.	0.01136	-8.39	-8.55	-8.06	-6.13	-3.55
[illegible]	146.	0.00968	-8.68	-8.87	-8.11	-5.85	-3.77
[illegible]	140.	0.00828	-8.81	-9.03	-8.37	-6.01	-4.19
[illegible]	114.	0.00702	-9.30	-9.56	-8.27	-6.72	-3.88
[illegible]	106.	0.00602	-9.08	-9.37	-9.06	-7.25	-3.93
[illegible]	94.	0.00512	-9.54	-9.89	-9.19	-7.77	-4.24
[illegible]	80.	0.00432	-11.11	-11.52	-10.70	-7.82	-4.53
[illegible]	65.	0.00368	-11.11	-11.35	-10.67	-7.25	-4.35
[illegible]	51.	0.00311	-11.40	-11.68	-10.26	-6.84	-4.84
[illegible]	36.	0.00264	-11.11	-11.45	-11.11	-5.72	-3.70

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (1)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

JANUARY

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	155.	6.41	7.95	11.30	12.05	0.13730	12.05
1000.	155.	4.85	6.08	8.02	9.44	0.12410	9.44
2000.	155.	3.51	4.58	6.04	6.52	0.10940	6.52
3000.	155.	2.37	3.56	5.39	5.72	0.09800	5.72
4000.	155.	2.04	3.11	5.03	5.63	0.08820	5.63
5000.	155.	1.60	2.40	4.39	5.19	0.07900	5.19
6000.	155.	1.49	2.08	3.27	4.61	0.07040	4.61
7000.	155.	1.58	2.08	3.16	3.66	0.06235	3.66
8000.	155.	1.58	2.14	2.80	2.89	0.05520	2.89
9000.	155.	1.89	2.42	3.15	3.78	0.04940	3.78
10000.	155.	1.30	2.25	3.08	3.80	0.04375	3.80
11000.	155.	-0.13	1.61	2.96	3.76	0.03860	3.76
12000.	155.	-1.57	0.63	5.82	6.60	0.03390	6.60
13000.	155.	-2.94	-1.47	6.25	7.72	0.02930	7.72
14000.	155.	-2.80	-1.72	2.58	3.87	0.02415	3.87
15000.	155.	-3.27	-1.76	1.01	2.76	0.02045	2.76
16000.	147.	-3.24	-1.76	0.59	3.53	0.01760	3.53
17000.	147.	-2.76	-1.38	0.41	3.72	0.01504	3.72
18000.	146.	-2.74	-1.29	0.48	3.55	0.01284	3.55
19000.	146.	-2.83	-1.69	0.19	1.51	0.01076	1.51
20000.	140.	-2.64	-1.98	-0.66	-0.44	0.00904	-0.44
21000.	114.	-2.84	-1.81	-0.52	0.00	0.00774	0.00
22000.	106.	-2.72	-2.11	-0.60	0.30	0.00664	0.30
23000.	94.	-3.18	-2.47	0.00	1.41	0.00574	1.41
24000.	80.	-3.70	-2.47	0.41	0.82	0.00490	0.82
25000.	65.	-3.14	-2.42	0.00	1.21	0.00419	1.21
26000.	51.	-3.13	-1.42	0.57	1.14	0.00355	1.14
27000.	36.	-2.02	-0.34	2.02	2.36	0.00304	2.36

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (2)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

FEBRUARY

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	141.	0.12310	0.46	0.45	0.94	2.58	5.67
1000.	141.	0.10670	-4.14	-4.23	-1.68	0.66	3.88
2000.	141.	0.09740	-5.16	-5.26	-1.46	0.49	2.24
3000.	141.	0.08840	-4.64	-4.75	-1.40	0.11	1.62
4000.	141.	0.07970	-4.55	-4.67	-1.32	-0.12	1.44
5000.	141.	0.07190	-4.26	-4.39	-1.46	0.00	1.33
6000.	141.	0.06480	-3.71	-3.86	-1.34	-0.15	1.19
7000.	141.	0.05800	-3.57	-3.66	-1.41	-0.25	1.08
8000.	141.	0.05095	-5.03	-5.13	-3.36	-1.12	0.93
9000.	140.	0.04335	-8.93	-9.03	-6.93	-2.42	0.74
10000.	140.	0.03720	-11.74	-11.86	-9.85	-6.29	-1.07
11000.	140.	0.03190	-14.25	-14.38	-12.10	-9.14	-4.84
12000.	140.	0.02735	-13.99	-14.15	-11.48	-9.12	-5.50
13000.	140.	0.02380	-12.50	-12.68	-11.76	-8.82	-5.51
14000.	140.	0.02055	-11.81	-11.83	-11.18	-8.60	-5.16
15000.	140.	0.01775	-10.80	-11.06	-10.80	-8.04	-5.28
16000.	140.	0.01525	-10.29	-10.59	-10.00	-7.65	-5.00
17000.	140.	0.01312	-9.52	-9.66	-9.24	-6.90	-4.28
18000.	140.	0.01124	-9.35	-9.52	-8.55	-6.77	-4.19
19000.	140.	0.00960	-9.43	-9.62	-9.06	-6.79	-4.15
20000.	133.	0.00820	-9.88	-9.91	-8.59	-7.05	-4.19
21000.	103.	0.00690	-10.85	-11.11	-9.82	-6.98	-3.36
22000.	91.	0.00584	-11.78	-12.08	-10.27	-7.25	-3.32
23000.	78.	0.00478	-15.55	-15.90	-14.49	-8.13	-3.53
24000.	67.	0.00404	-16.87	-17.28	-16.46	-9.05	-4.53
25000.	57.	0.00342	-17.39	-17.63	-16.43	-9.42	-4.11
26000.	51.	0.00296	-17.36	-17.66	-17.38	-8.55	-3.42
27000.	33.	0.00247	-16.24	-17.17	-16.84	-8.08	-2.02

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ARDA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (2)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

FEBRUARY

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	141.	6.99	9.43	12.13	15.72	0.14160	15.72
1000.	141.	5.20	6.97	10.93	13.40	0.12660	13.40
2000.	141.	3.31	4.77	7.98	9.35	0.11230	9.35
3000.	141.	2.70	4.10	5.93	6.36	0.09860	6.36
4000.	141.	2.28	3.23	4.91	5.39	0.08600	5.39
5000.	141.	2.00	2.80	3.99	5.19	0.07900	5.19
6000.	141.	1.78	2.38	3.86	5.20	0.07080	5.20
7000.	141.	1.66	2.49	3.91	4.49	0.06285	4.49
8000.	141.	1.40	2.52	3.82	4.66	0.05615	4.66
9000.	140.	1.79	2.94	4.10	4.94	0.04995	4.94
10000.	140.	0.95	2.49	3.80	4.39	0.04400	4.39
11000.	140.	-1.34	1.88	3.63	4.17	0.03875	4.17
12000.	140.	-2.20	2.04	6.45	6.92	0.03400	6.92
13000.	140.	-3.31	-0.37	4.96	6.07	0.02885	6.07
14000.	140.	-3.23	-0.65	1.51	4.73	0.02435	4.73
15000.	140.	-3.52	-1.01	1.26	1.76	0.02025	1.76
16000.	140.	-2.94	-0.59	1.47	2.35	0.01740	2.35
17000.	140.	-2.48	-0.69	1.10	2.07	0.01480	2.07
18000.	140.	-2.42	-0.97	0.81	1.45	0.01256	1.45
19000.	140.	-2.64	-0.94	0.57	0.75	0.01066	0.75
20000.	133.	-2.64	-1.54	-0.22	0.44	0.00912	0.44
21000.	103.	-2.33	-1.55	-0.52	0.00	0.00774	0.00
22000.	91.	-2.42	-1.51	-0.60	-0.30	0.00660	-0.30
23000.	78.	-2.47	-1.77	-0.71	-0.35	0.00564	-0.35
24000.	67.	-2.88	-2.06	-1.23	-0.82	0.00482	-0.82
25000.	57.	-2.66	-1.45	-0.72	-0.48	0.00412	-0.48
26000.	51.	-1.99	-0.57	0.57	0.85	0.00354	0.85
27000.	33.	-0.67	1.01	2.02	2.36	0.00304	2.36

Note: When less than 30 observations were available, frequency distribution data were excluded.

AMC (AFCRL) Form 600-2, 27 Sep 61 (One-Time)

Table VI (3)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

MARCH — **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

[illegible]	[illegible]	MINIMUM DENSITY	[illegible] DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
[illegible]	155.	[illegible]	-1.24	-1.35	0.46	2.65	4.62
[illegible]	155.	0.11067	-3.47	-2.56	-1.23	0.71	3.09
[illegible]	155.	0.09[illegible]	-3.73	-2.82	-1.85	0.11	1.85
[illegible]	155.	0.08100	-1.82	-1.94	-1.62	-0.00	1.40
[illegible]	155.	0.01220	-1.56	-1.68	-1.20	-0.24	1.06
[illegible]	155.	0.07410	-1.33	-1.40	-1.20	0.00	0.93
[illegible]	155.	0.06670	-0.83	-1.04	-0.74	0.00	0.89
[illegible]	155.	0.05950	-1.08	-1.16	-0.67	0.08	1.16
[illegible]	155.	0.05130	-4.28	-4.47	-2.89	-0.37	0.93
[illegible]	155.	0.04405	-7.46	-7.56	-5.86	-1.85	1.05
[illegible]	155.	0.03195	-9.36	-10.08	-9.02	-4.74	-0.76
[illegible]	155.	0.03240	-12.90	-13.04	-11.96	-8.20	-3.49
[illegible]	155.	0.02785	-12.42	-12.58	-11.48	-8.02	-4.40
[illegible]	155.	0.02410	-11.40	-11.58	-11.21	-7.72	-4.96
[illegible]	155.	0.02085	-10.32	-10.54	-9.89	-7.53	-4.52
[illegible]	155.	0.01785	-10.30	-10.55	-9.30	-7.04	-4.52
[illegible]	131.	0.01540	-9.41	-9.71	-8.82	-6.76	-4.41
[illegible]	123.	0.01330	-8.28	-8.41	-8.00	-5.93	-3.86
[illegible]	123.	0.01140	-8.06	-8.23	-7.74	-5.81	-3.71
[illegible]	123.	0.30974	-8.11	-8.30	-8.11	-5.47	-3.77
[illegible]	121.	0.00530	-8.59	-8.81	-7.93	-5.73	-3.96
[illegible]	93.	0.00696	-10.08	-10.34	-7.24	-5.17	-3.36
[illegible]	89.	0.00598	-9.67	-9.97	-7.25	-4.83	-3.63
[illegible]	77.	0.00508	-10.25	-10.60	-8.83	-5.30	-3.53
[illegible]	66.	0.00436	-10.28	-10.70	-7.82	-5.76	-4.53
[illegible]	50.	0.00382	-7.72	-7.97	-6.52	-4.83	-3.86
[illegible]	40.	0.00332	-5.13	-5.41	-5.13	-4.56	-2.85
[illegible]	30.	0.00283	-4.71	-5.05	-4.71	-3.03	-1.66

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (ARMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (3)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

MARCH

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	155.	5.42	6.74	8.54	11.07	0.13610	11.07
1000.	155.	4.41	5.64	7.50	8.38	0.12290	8.38
2000.	155.	2.82	4.38	7.59	8.67	0.11160	8.67
3000.	155.	2.16	2.91	6.36	7.77	0.09990	7.77
4000.	155.	1.80	2.63	5.75	7.07	0.08940	7.07
5000.	155.	1.60	2.40	4.26	4.93	0.07880	4.93
6000.	155.	1.49	2.08	3.12	4.61	0.07040	4.61
7000.	155.	1.50	2.08	3.08	3.91	0.06250	3.91
8000.	155.	1.40	1.86	2.80	3.45	0.05550	3.45
9000.	155.	1.79	2.10	3.36	3.57	0.04930	3.57
10000.	155.	0.83	2.02	3.20	4.03	0.04385	4.03
11000.	155.	-0.54	1.34	3.09	3.49	0.03850	3.49
12000.	155.	-2.52	-0.16	5.03	6.29	0.03380	6.29
13000.	155.	-3.49	-1.84	2.39	6.62	0.02900	6.62
14000.	155.	-3.01	-2.15	0.43	3.87	0.02415	3.87
15000.	155.	-3.27	-2.01	0.25	3.02	0.02050	3.02
16000.	131.	-2.65	-1.47	0.88	1.47	0.01725	1.47
17000.	123.	-2.48	-0.97	0.97	2.34	0.01484	2.34
18000.	123.	-2.58	-1.45	0.81	1.94	0.01264	1.94
19000.	123.	-2.64	-1.32	-0.19	0.75	0.01066	0.75
20000.	121.	-2.64	-1.76	-0.44	-0.00	0.00908	-0.00
21000.	93.	-2.58	-2.07	-1.03	0.00	0.00774	0.00
22000.	89.	-2.72	-2.42	-1.21	-0.30	0.00660	-0.30
23000.	77.	-3.18	-2.83	-1.41	-0.71	0.00562	-0.71
24000.	66.	-3.70	-2.88	-1.23	-0.82	0.00482	-0.82
25000.	50.	-3.14	-2.42	-0.97	-0.48	0.00412	-0.48
26000.	40.	-2.28	-1.71	0.28	0.57	0.00353	0.57
27000.	30.	-1.35	0.67	1.35	1.68	0.00302	1.68

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (4)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

APRIL — **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	0.12130	-1.01	-1.02	-0.61	1.27	2.82
1000.	150.	0.11020	-0.82	-2.91	-2.56	0.09	2.20
2000.	150.	0.09970	-2.[illegible]	-3.02	-1.95	0.00	2.04
3000.	150.	0.09060	-2.05	-2.16	-1.62	-0.00	1.51
4000.	150.	0.08170	-2.16	-2.28	-1.68	-0.12	1.08
5000.	150.	0.07380	-1.77	-1.86	-1.60	-0.40	1.07
6000.	150.	0.06670	-1.49	-1.63	-1.04	-0.15	1.04
7000.	150.	0.05970	-1.41	-1.50	-1.25	0.17	1.25
8000.	150.	0.05275	-1.[illegible]	-1.77	-1.03	0.19	1.12
9000.	150.	0.04540	-4.62	-4.73	-2.94	-0.32	1.26
10000.	150.	0.03970	-3.19	-8.30	-6.52	-2.85	-0.24
11000.	150.	0.03325	-10.62	-10.75	-9.54	-6.59	-3.36
12000.	150.	0.02850	-10.[illegible]	-10.53	-9.43	-6.92	-4.25
13000.	150.	0.02440	-10.29	-10.48	-8.82	-6.99	-4.41
14000.	150.	0.02180	-10.54	-10.75	-8.60	-6.45	-4.09
15000.	150.	0.01820	-8.54	-8.79	-8.04	-6.03	-4.27
16000.	136.	0.01555	-8.53	-8.82	-7.65	-5.00	-3.53
17000.	129.	0.01324	-8.69	-8.83	-7.31	-4.55	-2.76
18000.	124.	0.01148	-7.42	-7.58	-6.77	-4.19	-2.42
19000.	122.	0.00984	-7.17	-7.55	-6.42	-3.96	-2.26
20000.	122.	0.00836	-7.93	-8.15	-6.83	-4.19	-2.42
21000.	83.	0.00718	-7.24	-7.49	-5.94	-3.62	-1.81
22000.	80.	0.00610	-7.85	-8.16	-6.04	-3.63	-1.81
23000.	71.	0.00518	-8.48	-8.83	-7.77	-3.89	-1.77
24000.	61.	0.00436	-10.29	-10.70	-9.47	-3.70	-2.06
25000.	48.	0.00367	-11.25	-11.59	-9.18	-3.86	-1.45
26000.	38.	0.00316	-3.70	-3.99	-3.70	-2.28	-0.57
27000.	35.	0.00264	-3.70	-4.04	-3.70	-1.35	0.34
28000.	32.	0.00244	-3.17	-3.57	-3.17	-0.79	0.79

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACHC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (4)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

APRIL

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	150.	3.88	4.77	6.16	6.66	0.13070	6.66
1000.	150.	3.17	4.23	5.64	6.53	0.12080	6.53
2000.	150.	2.73	3.89	5.36	6.62	0.10950	6.62
3000.	150.	2.05	2.91	4.31	6.58	0.09860	6.58
4000.	150.	1.56	2.40	3.71	5.27	0.08790	5.27
5000.	150.	1.46	2.00	3.20	4.39	0.07840	4.39
6000.	150.	1.49	1.93	2.82	4.01	0.07000	4.01
7000.	150.	1.66	2.08	2.83	3.24	0.06210	3.24
8000.	150.	1.58	1.96	2.80	3.17	0.05535	3.17
9000.	150.	1.68	2.21	3.36	4.10	0.04955	4.10
10000.	150.	0.71	1.66	2.97	3.91	0.04380	3.91
11000.	150.	-1.61	0.00	2.42	3.09	0.03835	3.09
12000.	150.	-2.83	-0.47	4.87	6.13	0.03375	6.13
13000.	150.	-3.31	-2.39	2.02	3.86	0.02825	3.86
14000.	150.	-3.01	-2.15	0.43	1.94	0.02370	1.94
15000.	150.	-3.02	-1.76	0.25	1.76	0.02025	1.76
16000.	136.	-2.65	-1.76	1.18	1.76	0.01730	1.76
17000.	129.	-1.93	-0.97	1.38	2.90	0.01492	2.90
18000.	124.	-1.61	-0.65	1.45	3.39	0.01282	3.39
19000.	122.	-1.51	-0.38	1.13	3.02	0.01092	3.02
20000.	122.	-1.54	-0.44	1.32	2.64	0.00932	2.64
21000.	83.	-1.03	-0.26	1.81	2.07	0.00790	2.07
22000.	80.	-1.21	-0.30	1.81	2.11	0.00676	2.11
23000.	71.	-1.06	-0.35	1.41	1.77	0.00576	1.77
24000.	61.	-1.23	-0.82	0.82	1.23	0.00492	1.23
25000.	48.	-0.72	-0.24	1.21	1.45	0.00420	1.45
26000.	38.	0.00	0.28	2.28	2.56	0.00360	2.56
27000.	35.	0.67	1.01	2.36	2.69	0.00305	2.69
28000.	32.	1.59	1.98	3.17	3.57	0.00261	3.57

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (5)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria	Period of Observation: March 1954 - February 1959
MAY	Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	0.11790	-3.87	-3.88	-2.64	-0.61	1.02
1000.	155.	0.10760	-5.11	-5.20	-4.50	-1.85	-0.26
2000.	155.	0.09840	-4.19	-4.25	-3.80	-1.56	-0.19
3000.	155.	0.08930	-3.02	-3.13	-2.59	-1.25	-0.11
4000.	155.	0.08180	-2.04	-2.16	-1.80	-1.20	-0.36
5000.	155.	0.07370	-1.86	-2.00	-1.60	-1.07	-0.27
6000.	155.	0.06600	-1.97	-2.08	-1.19	-0.55	0.15
7000.	155.	0.05915	-1.66	-1.75	-0.75	-0.08	0.50
8000.	155.	0.05305	-1.12	-1.30	-0.65	0.47	1.03
9000.	155.	0.04655	-2.21	-2.31	-0.95	1.05	1.79
10000.	155.	0.03940	-6.52	-6.64	-4.03	0.12	1.78
11000.	155.	0.03375	-9.27	-9.41	-7.12	-3.36	0.54
12000.	155.	0.02905	-8.65	-8.81	-6.92	-3.37	-0.79
13000.	155.	0.02520	-7.35	-7.54	-6.43	-3.66	-1.47
14000.	155.	0.02160	-7.10	-7.31	-5.81	-3.23	-1.08
15000.	155.	0.01860	-6.53	-6.78	-5.28	-3.02	-0.75
16000.	155.	0.01610	-5.29	-5.59	-4.71	-2.94	-0.29
17000.	112.	0.01390	-4.14	-4.28	-4.00	-1.79	0.28
18000.	107.	0.01192	-3.87	-4.19	-3.23	-1.61	0.65
19000.	103.	0.01028	-3.02	-3.21	-2.64	-1.32	0.94
20000.	95.	0.00885	-2.20	-2.42	-2.20	-1.10	0.88
21000.	78.	0.00760	-1.61	-2.07	-2.07	-1.03	1.55
22000.	74.	0.00642	-3.02	-3.32	-2.11	-1.21	0.91
23000.	72.	0.00552	-2.47	-2.83	-2.12	-1.06	1.06
24000.	67.	0.00470	-3.29	-3.70	-2.47	-1.23	0.82
25000.	56.	0.00402	-2.90	-3.14	-2.17	-0.97	0.72
26000.	43.	0.00347	-1.14	-1.42	-1.42	-0.28	1.42
27000.	41.	0.00294	-1.01	-1.35	-1.01	0.67	2.36
28000.	32.	0.00253	0.40	0.00	0.40	2.36	3.97

Note: When less than 30 observations were available, frequency distribution data were excluded.

AOMC (ABMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (5)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

MAY

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	155.	1.92	2.49	4.04	5.03	0.12870	5.03
1000.	155.	0.88	2.03	3.00	4.76	0.11880	4.76
2000.	155.	0.88	1.95	3.02	4.48	0.10730	4.48
3000.	155.	0.43	1.19	2.70	4.75	0.09710	4.75
4000.	155.	0.12	0.72	2.28	3.47	0.08640	3.47
5000.	155.	0.27	0.80	2.13	2.66	0.07710	2.66
6000.	155.	0.59	1.04	1.93	2.53	0.06900	2.53
7000.	155.	0.91	1.58	2.33	3.08	0.06200	3.08
8000.	155.	1.40	1.96	2.61	2.89	0.05520	2.89
9000.	155.	1.21	2.52	3.36	3.78	0.04940	3.78
10000.	155.	2.25	2.85	3.32	3.68	0.04370	3.68
11000.	155.	1.88	2.69	3.49	3.90	0.03865	3.90
12000.	155.	1.42	4.40	6.60	7.08	0.03405	7.08
13000.	155.	0.18	2.21	7.35	8.27	0.02945	8.27
14000.	155.	-0.22	1.72	4.95	6.67	0.02480	6.67
15000.	155.	0.25	1.51	4.02	4.52	0.02080	4.52
16000.	155.	0.59	1.76	3.24	4.71	0.01780	4.71
17000.	112.	1.24	2.62	3.86	4.55	0.01516	4.55
18000.	107.	1.61	2.74	4.68	5.16	0.01304	5.16
19000.	103.	2.08	3.02	4.72	4.91	0.01112	4.91
20000.	95.	1.98	2.86	4.19	4.41	0.00948	4.41
21000.	78.	2.58	3.10	4.13	4.39	0.00808	4.39
22000.	74.	2.42	3.02	3.93	4.23	0.00690	4.23
23000.	72.	2.47	2.83	3.89	4.24	0.00590	4.24
24000.	67.	1.65	2.47	3.29	3.70	0.00504	3.70
25000.	56.	1.93	2.66	3.14	3.38	0.00428	3.38
26000.	43.	2.85	3.42	3.70	3.70	0.00364	3.70
27000.	41.	3.70	4.38	4.71	4.71	0.00311	4.71
28000.	32.	5.16	5.56	6.35	6.35	0.00266	6.35

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (6)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

JUNE — **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE (FEET)	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
[illegible]	150.	0.11800	-3.70	-3.71	-2.82	-1.83	-0.52
[illegible]	150.	0.10640	-4.41	-4.50	-4.23	-3.09	-1.59
[illegible]	150.	0.09820	-4.38	-4.48	-3.70	-2.63	-1.17
[illegible]	150.	0.09880	-4.21	-4.31	-3.13	-1.94	-1.19
[illegible]	150.	0.08070	-3.35	-3.47	-2.87	-1.92	-1.08
[illegible]	150.	0.07270	-3.10	-3.33	-2.53	-1.73	-1.07
[illegible]	150.	0.06540	-2.82	-2.97	-2.23	-1.19	-0.59
[illegible]	150.	0.05845	-2.87	-2.91	-1.66	-0.67	0.00
[illegible]	150.	0.05260	-1.96	-2.05	-1.03	-0.09	0.65
[illegible]	150.	0.04645	-2.42	-2.52	-0.42	0.84	1.58
[illegible]	150.	0.04040	-4.15	-4.27	-2.14	0.83	2.02
[illegible]	150.	0.03470	-6.72	-6.85	-5.11	-0.54	1.88
[illegible]	150.	0.03010	-5.25	-5.50	-4.56	-1.42	2.67
[illegible]	150.	0.02595	-4.96	-5.15	-3.86	-1.47	1.47
[illegible]	150.	0.02250	-3.27	-3.44	-3.01	-0.65	1.29
[illegible]	149.	0.01930	-3.02	-3.27	-2.26	-0.50	1.51
[illegible]	149.	0.01655	-2.65	-2.94	-2.06	0.25	1.76
[illegible]	149.	0.01426	-1.52	-1.66	-0.69	0.83	2.21
[illegible]	149.	0.01226	-1.19	-1.29	-0.32	1.29	2.58
[illegible]	149.	0.01054	-0.57	-0.75	-0.19	1.13	3.02
[illegible]	149.	0.00902	-0.06	-0.88	-0.44	1.10	2.64
[illegible]	139.	0.00772	-0.26	-0.52	-0.26	1.29	2.84
[illegible]	131.	0.00656	-0.31	-1.21	-0.60	0.90	2.72
[illegible]	126.	0.00564	-0.35	-0.71	-0.35	1.06	2.47
[illegible]	121.	0.00482	-0.92	-1.23	-0.41	0.41	2.06
[illegible]	111.	0.00410	-0.97	-1.21	0.00	0.97	2.42
[illegible]	95.	0.00350	-0.28	-0.57	0.57	1.71	3.13
[illegible]	81.	[illegible]	1.35	1.01	1.35	2.69	4.38
[illegible]	65.	0.00258	2.38	1.98	2.38	3.57	5.16
[illegible]	49.	0.00218	1.87	1.40	1.87	3.74	5.61
[illegible]	31.	0.00186	1.64	1.09	1.64	5.46	7.10

Note: When less than 30 observations were available, frequency distribution data were excluded.

ADRC (ARDA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (6)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

JUNE

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	150.	0.05	0.70	2.01	2.66	0.12580	2.66
1000.	150.	-0.79	0.00	1.23	1.76	0.11540	1.76
2000.	150.	-0.78	0.00	1.46	2.43	0.10520	2.43
3000.	150.	-0.65	0.11	1.73	2.37	0.09490	2.37
4000.	150.	-0.72	-0.36	1.20	2.40	0.08550	2.40
5000.	150.	-0.67	[illegible]	1.33	1.86	0.07650	1.86
6000.	150.	-0.30	0.15	1.34	2.23	0.06880	2.23
7000.	150.	0.25	0.75	1.91	2.74	0.06180	2.74
8000.	150.	0.93	1.21	1.86	2.14	0.05480	2.14
9000.	150.	1.83	2.21	2.73	3.05	0.04905	3.05
10000.	150.	2.37	2.85	3.32	3.91	0.04380	3.91
11000.	150.	2.69	3.23	3.90	4.17	0.03875	4.17
12000.	150.	4.72	[illegible]	7.39	7.86	0.03430	7.86
13000.	150.	2.94	4.96	9.19	10.85	0.03015	10.85
14000.	150.	2.37	3.44	7.31	9.03	0.02535	9.03
15000.	149.	2.51	3.52	5.22	7.29	0.02135	7.29
16000.	149.	2.94	3.82	5.88	6.76	0.01815	6.76
17000.	149.	3.59	4.69	6.34	6.90	0.01550	6.90
18000.	149.	3.87	4.68	6.13	6.45	0.01320	6.45
19000.	149.	3.96	4.53	6.23	6.79	0.01132	6.79
20000.	149.	3.52	4.19	5.29	5.95	0.00982	5.95
21000.	139.	3.62	4.39	5.43	5.94	0.00820	5.94
22000.	131.	3.32	3.93	5.44	6.04	0.00722	6.04
23000.	128.	3.18	3.69	5.30	5.65	0.00598	5.65
24000.	121.	2.88	3.29	4.53	5.35	0.00512	5.35
25000.	111.	3.14	3.62	4.59	6.04	0.00433	6.04
26000.	95.	3.99	4.56	5.41	6.55	0.00374	6.55
27000.	81.	5.05	5.72	7.07	7.41	0.00319	7.41
29000.	65.	5.95	6.35	8.33	8.33	0.00273	8.33
29000.	49.	6.54	7.01	9.81	10.28	0.00236	10.28
30000.	31.	7.65	8.20	9.84	9.84	0.00201	9.84

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFSWC) Form 600-2, 27 Sep 61 (One-Time)

Table VI (7)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria	**Period of Observation: March 1954 - February 1959**
JULY	**Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

[illegible]	No. O.S.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
[illegible]	155.	[illegible]	-4.97	-4.94	-4.03	[illegible]	-1.26
[illegible]	155.	0.10700	-5.84	-5.73	-5.29	-3.44	-2.20
[illegible]	155.	0.09800	-4.58	-4.67	-4.28	[illegible]	-1.66
[illegible]	155.	0.09950	-3.45	-3.56	-3.13	[illegible]	-1.51
[illegible]	155.	0.09130	-2.67	-2.75	-2.63	[illegible]	-1.44
[illegible]	155.	0.07280	-2.93	-3.06	-2.80	[illegible]	-1.33
[illegible]	155.	[illegible]	-2.27	-2.38	-2.23	-1.49	-0.89
[illegible]	155.	0.05895	-2.00	-2.08	-1.75	-1.06	-0.33
[illegible]	155.	0.05255	-2.05	-2.14	-1.30	-0.37	0.37
[illegible]	155.	0.04670	-1.88	-2.00	-1.05	0.42	1.26
[illegible]	155.	[illegible]	-4.73	-4.51	-1.66	0.47	1.78
11000.	155.	0.03475	-6.59	-6.72	-4.70	-1.75	1.88
[illegible]	155.	0.03020	-5.62	-5.19	-3.62	-2.20	2.20
[illegible]	155.	[illegible]	-3.86	-4.04	-2.57	-1.47	1.84
[illegible]	155.	[illegible]	-1.94	-2.15	-1.51	-0.43	2.15
[illegible]	155.	[illegible]	-1.26	-1.51	-0.75	0.25	3.02
[illegible]	155.	0.01700	0.00	-0.29	0.29	1.47	3.53
[illegible]	155.	[illegible]	0.55	0.41	1.38	2.34	4.28
[illegible]	155.	0.01260	1.61	1.45	1.94	2.74	4.35
[illegible]	155.	0.01074	1.32	1.13	1.89	2.83	4.15
[illegible]	155.	[illegible]	1.32	1.10	1.32	2.42	3.52
[illegible]	148.	0.00786	1.55	1.29	1.81	2.58	3.62
[illegible]	138.	0.00674	1.61	1.21	1.81	2.42	3.63
[illegible]	134.	0.00576	1.77	1.41	1.77	2.47	3.89
[illegible]	133.	0.00492	1.23	0.82	1.23	2.06	3.29
[illegible]	130.	0.00420	1.45	1.21	1.69	2.42	3.62
[illegible]	125.	[illegible]	2.56	2.28	2.85	3.42	4.56
[illegible]	112.	[illegible]	3.70	3.37	3.70	4.71	5.72
[illegible]	87.	[illegible]	4.37	3.97	4.37	5.56	6.75
[illegible]	68.	0.00226	5.61	5.14	5.61	6.54	7.48

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (7)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

JULY

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	155.	-0.69	-0.21	0.94	2.58	0.12570	2.58
1000.	155.	-1.41	-0.79	0.26	0.62	0.11410	0.62
2000.	155.	-1.07	-0.49	0.29	1.17	0.10390	1.17
3000.	155.	-1.08	-0.54	0.32	0.86	0.09350	0.86
4000.	155.	-1.20	-0.60	0.00	0.48	0.08290	0.48
5000.	155.	-1.07	-0.67	0.13	0.67	0.07560	0.67
6000.	155.	-0.59	-0.30	0.59	0.89	0.06790	0.89
7000.	155.	0.00	0.25	1.08	1.58	0.06110	1.58
8000.	155.	0.65	0.84	1.40	1.68	0.05455	1.68
9000.	155.	1.58	1.89	2.31	2.73	0.04890	2.73
10000.	155.	2.14	2.61	3.20	4.15	0.04390	4.15
11000.	155.	2.55	3.09	3.90	4.30	0.03880	4.30
12000.	155.	3.93	5.97	7.55	7.86	0.03430	7.86
13000.	155.	3.31	6.25	9.56	10.48	0.03005	10.48
14000.	155.	3.87	5.81	8.39	10.11	0.02560	10.11
15000.	155.	4.77	5.78	9.05	10.80	0.02205	10.80
16000.	155.	4.71	6.18	9.12	10.59	0.01880	10.59
17000.	155.	5.10	6.34	8.55	11.03	0.01610	11.03
18000.	155.	5.00	5.97	8.39	9.52	0.01358	9.52
19000.	155.	4.91	5.47	7.74	9.25	0.01158	9.25
20000.	155.	4.19	4.85	7.49	8.37	0.00984	8.37
21000.	148.	4.39	5.17	6.72	8.01	0.00836	8.01
22000.	138.	4.23	5.14	7.25	7.55	0.00712	7.55
23000.	134.	4.24	4.95	6.71	7.42	0.00608	7.42
24000.	133.	3.70	4.53	6.17	6.58	0.00518	6.58
25000.	130.	4.35	5.07	6.52	7.25	0.00444	7.25
26000.	125.	5.41	5.98	7.12	7.69	0.00378	7.69
27000.	112.	6.40	7.07	8.42	9.09	0.00324	9.09
28000.	87.	7.14	7.94	9.52	9.92	0.00277	9.92
29000.	68.	8.41	9.35	10.75	11.21	0.00236	11.21

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (8)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria	**Period of Observation: March 1954 - February 1959**
AUGUST	**Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE (METERS)	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	0.11600	-5.24	-5.35	-3.62	-2.32	-0.93
1000.	155.	0.10610	-6.44	-6.61	-5.11	-3.35	-1.85
2000.	155.	0.09600	-6.52	-6.62	-5.06	-2.92	-1.46
3000.	155.	0.08820	-4.85	-4.96	-3.88	-2.59	-1.29
4000.	155.	0.08040	-3.71	-3.83	-2.99	-2.16	-1.32
5000.	155.	0.07190	-4.16	-4.39	-3.06	-2.00	-1.33
6000.	155.	0.06520	-3.12	-3.27	-2.53	-1.49	-0.74
7000.	155.	0.05880	-2.24	-2.33	-1.91	-0.91	-0.25
8000.	155.	0.05255	-2.05	-2.14	-1.86	-1.28	0.37
9000.	155.	0.04680	-1.68	-1.79	-0.63	0.74	1.37
10000.	155.	0.04025	-4.51	-4.63	-1.42	0.83	1.90
11000.	155.	0.03485	-6.32	-6.45	-4.30	-0.94	1.88
12000.	155.	0.03050	-4.09	-4.25	-3.46	-1.42	2.20
13000.	155.	0.02625	-3.49	-3.68	-2.94	-0.52	2.02
14000.	155.	0.02265	-2.58	-2.80	-2.15	0.22	2.58
15000.	155.	0.01950	-2.01	-2.26	-1.26	0.50	3.02
16000.	155.	0.01685	-0.88	-1.47	0.00	1.18	3.24
17000.	155.	0.01450	0.00	-0.14	0.55	1.53	4.00
18000.	155.	0.01246	0.48	0.32	0.97	2.26	3.71
19000.	155.	0.01062	0.19	0.00	1.51	2.64	3.96
20000.	155.	0.00918	1.10	0.88	1.32	2.42	3.52
21000.	138.	0.00786	1.55	1.29	1.81	2.84	3.88
22000.	124.	0.00670	1.21	0.91	1.81	3.02	3.93
23000.	119.	0.00572	1.06	0.71	2.12	3.18	3.89
24000.	111.	0.00494	1.65	1.23	1.65	2.47	3.29
25000.	105.	0.00420	1.45	1.21	1.69	2.66	3.86
26000.	98.	0.00359	2.26	1.99	2.56	3.42	4.84
27000.	93.	0.00303	2.02	1.68	3.70	4.71	6.06
28000.	60.	0.00260	3.17	2.78	3.97	5.16	6.35
29000.	44.	0.00224	4.67	4.21	4.67	6.07	7.48

Note: When less than 30 observations were available, frequency distribution data were excluded.

AGMC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (8)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria	Period of Observation: March 1954 - February 1959
AUGUST	Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	155.	-0.28	0.21	1.43	2.09	0.12510	2.09
1000.	155.	-1.23	-0.53	0.35	0.79	0.11430	0.79
2000.	155.	-0.78	-0.19	0.68	1.27	0.10400	1.27
3000.	155.	-0.76	-0.32	0.43	0.97	0.09360	0.97
4000.	155.	-0.84	-0.48	0.12	0.36	0.08380	0.36
5000.	155.	-0.93	-0.40	0.27	0.53	0.07550	0.53
6000.	155.	-0.45	0.00	0.45	0.89	0.06790	0.89
7000.	155.	0.08	0.50	1.16	1.50	0.06105	1.50
8000.	155.	0.75	1.12	1.58	2.05	0.05475	2.05
9000.	155.	1.68	2.00	2.63	3.26	0.04915	3.26
10000.	155.	2.37	2.73	3.32	3.80	0.04375	3.80
11000.	155.	2.55	3.09	4.03	4.30	0.03880	4.30
12000.	155.	4.25	5.50	7.08	7.86	0.03430	7.86
13000.	155.	4.23	5.88	7.54	10.48	0.03005	10.48
14000.	155.	4.30	6.24	8.60	9.89	0.02555	9.89
15000.	155.	4.52	6.03	8.04	9.55	0.02180	9.55
16000.	155.	4.71	5.88	8.53	9.41	0.01860	9.41
17000.	155.	4.83	6.07	8.83	10.07	0.01596	10.07
18000.	155.	4.68	5.65	7.74	8.71	0.01348	8.71
19000.	155.	4.53	5.28	7.17	7.74	0.01142	7.74
20000.	155.	3.96	4.63	6.17	7.05	0.00972	7.05
21000.	138.	4.39	4.91	6.98	8.01	0.00836	8.01
22000.	124.	4.23	4.83	6.65	7.25	0.00710	7.25
23000.	119.	4.24	4.95	6.36	6.71	0.00604	6.71
24000.	111.	3.70	4.53	5.76	6.58	0.00518	6.58
25000.	105.	4.35	4.83	5.80	7.25	0.00444	7.25
26000.	98.	5.13	5.98	6.84	7.98	0.00379	7.98
27000.	93.	6.40	7.41	8.42	9.43	0.00325	9.43
28000.	60.	7.14	7.94	9.13	11.11	0.00280	11.11
29000.	44.	8.41	9.35	10.75	12.15	0.00240	12.15

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (9)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

SEPTEMBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	0.11930	-2.64	-2.65	-1.99	-1.18	0.29
1000.	150.	0.10610	-4.67	-4.76	-3.53	-2.82	-0.97
2000.	150.	0.09530	-4.28	-4.38	-3.31	-2.43	-1.17
3000.	150.	0.08990	-3.02	-3.13	-2.70	-1.94	-1.08
4000.	150.	0.08110	-2.87	-2.99	-2.28	-1.68	-1.08
5000.	150.	0.07300	-2.80	-2.93	-2.40	-1.60	-0.93
6000.	150.	0.06590	-2.08	-2.23	-1.93	-1.19	-0.59
7000.	150.	0.05875	-2.33	-2.41	-1.66	-0.75	0.00
8000.	150.	0.05115	-4.66	-4.75	-1.49	-0.09	0.65
9000.	150.	0.04570	-3.99	-4.10	-1.68	0.42	1.58
10000.	150.	0.03985	-5.46	-5.58	-3.56	0.36	2.02
11000.	150.	0.03435	-7.66	-7.80	-5.65	-0.27	2.28
12000.	150.	0.02980	-6.29	-6.60	-4.40	-0.31	4.40
13000.	149.	0.02555	-6.07	-6.25	-3.86	-0.37	3.68
14000.	149.	0.02195	-5.59	-5.81	-3.66	0.22	3.23
15000.	149.	0.01910	-4.02	-4.27	-2.01	0.50	3.02
16000.	149.	0.01650	-2.94	-3.24	-2.06	0.88	3.24
17000.	149.	0.01424	-1.79	-1.93	-1.10	1.24	3.17
18000.	149.	0.01216	-1.94	-2.10	-0.81	1.13	2.93
19000.	149.	0.01044	-1.51	-1.70	-0.94	0.94	2.83
20000.	149.	0.00892	-1.76	-1.98	-0.66	0.66	2.42
21000.	116.	0.00768	-0.78	-1.03	0.52	1.29	2.58
22000.	115.	0.00660	-0.30	-0.60	0.00	0.91	2.42
23000.	112.	0.00562	-0.71	-1.06	-0.35	1.41	2.47
24000.	111.	0.00480	-1.23	-1.65	-1.23	0.41	1.65
25000.	105.	0.00410	-0.97	-1.21	-0.97	0.48	1.69
26000.	97.	0.00350	-0.28	-0.57	-0.28	0.85	2.56
27000.	80.	0.00299	0.67	0.34	0.67	1.68	3.37
28000.	66.	0.00254	0.79	0.40	0.79	1.98	4.37
29000.	46.	0.00217	1.40	0.93	0.93	2.80	5.14

Note: When less than 30 observations were available, frequency distribution data were excluded.

ADRC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (9)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

SEPTEMBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	150.	1.11	1.84	3.23	3.97	0.12740	3.97
1000.	150.	-0.18	0.79	2.12	3.53	0.11740	3.53
2000.	150.	-0.39	0.88	2.14	3.89	0.10670	3.89
3000.	150.	-0.54	0.22	1.62	2.91	0.09540	2.91
4000.	150.	-0.72	-0.24	1.32	2.99	0.08600	2.99
5000.	150.	-0.67	0.00	1.46	1.86	0.07650	1.86
6000.	150.	-0.15	0.30	1.34	1.78	0.06850	1.78
7000.	150.	0.33	0.75	1.91	2.24	0.06150	2.24
8000.	150.	0.93	1.30	2.05	2.24	0.05485	2.24
9000.	150.	1.89	2.31	2.94	3.26	0.04915	3.26
10000.	150.	2.49	2.97	3.68	3.91	0.04380	3.91
11000.	150.	2.96	3.36	4.30	4.70	0.03895	4.70
12000.	150.	5.66	6.60	8.02	8.49	0.03450	8.49
13000.	149.	5.15	6.80	9.93	11.58	0.03035	11.58
14000.	149.	4.95	6.02	8.60	9.68	0.02550	9.68
15000.	149.	4.52	5.28	8.29	8.79	0.02165	8.79
16000.	149.	4.12	5.29	7.06	7.65	0.01830	7.65
17000.	149.	4.00	4.97	6.76	8.14	0.01568	8.14
18000.	149.	3.39	4.35	6.13	7.10	0.01328	7.10
19000.	149.	3.40	4.15	5.09	5.85	0.01122	5.85
20000.	149.	2.86	3.52	4.41	5.29	0.00956	5.29
21000.	116.	3.10	3.62	4.91	5.43	0.00816	5.43
22000.	115.	3.02	3.63	4.83	5.44	0.00698	5.44
23000.	112.	3.18	3.53	4.59	5.30	0.00596	5.30
24000.	111.	2.47	2.88	4.12	4.94	0.00510	4.94
25000.	105.	2.42	3.14	4.59	4.83	0.00434	4.83
26000.	97.	3.13	3.99	5.41	5.98	0.00372	5.98
27000.	80.	4.38	5.05	7.07	7.41	0.00319	7.41
28000.	66.	5.56	6.35	7.94	8.33	0.00273	8.33
29000.	46.	6.54	7.94	9.35	9.81	0.00235	9.81

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (10)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

OCTOBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	0.11910	-2.81	-2.82	-1.01	0.70	2.17
1000.	154.	0.10880	-4.06	-4.14	-3.00	-0.79	0.79
2000.	154.	0.09850	-4.09	-4.19	-3.12	-1.56	0.00
3000.	154.	0.08880	-4.21	-4.31	-3.02	-1.51	-0.43
4000.	154.	0.08070	-3.25	-3.47	-2.63	-1.56	-0.60
5000.	154.	0.07320	-2.53	-2.66	-2.26	-1.46	-0.53
6000.	154.	0.06600	-1.93	-2.08	-1.63	-0.89	-0.15
7000.	154.	0.05910	-1.75	-1.83	-1.25	-0.50	0.42
8000.	154.	0.05310	-1.03	-1.12	-0.65	0.00	0.93
9000.	154.	0.04505	-5.36	-5.46	-1.47	0.63	1.68
10000.	154.	0.03890	-7.71	-7.83	-4.63	0.24	1.90
11000.	154.	0.03350	-9.95	-10.08	-7.80	-2.15	2.02
12000.	154.	0.02885	-9.28	-9.43	-7.55	-2.20	3.93
13000.	153.	0.02490	-8.46	-8.64	-6.62	-2.57	2.94
14000.	153.	0.02125	-8.60	-8.82	-6.02	-2.15	2.80
15000.	153.	0.01795	-9.80	-10.05	-5.78	-1.76	2.76
16000.	153.	0.01590	-6.47	-6.76	-5.29	-2.06	2.35
17000.	148.	0.01372	-5.38	-5.52	-4.41	-1.66	2.07
18000.	148.	0.01184	-4.52	-4.68	-3.71	-1.45	1.45
19000.	148.	0.01016	-4.15	-4.34	-3.58	-1.13	1.13
20000.	148.	0.00864	-4.85	-5.07	-3.74	-1.54	0.66
21000.	107.	0.00732	-5.43	-5.68	-4.39	-1.03	1.03
22000.	105.	0.00628	-5.14	-5.44	-4.23	-1.21	0.60
23000.	100.	0.00538	-4.95	-5.30	-4.24	-1.06	0.00
24000.	93.	0.00456	-6.17	-6.58	-4.94	-2.06	-0.41
25000.	85.	0.00392	-5.31	-5.56	-4.11	-1.93	-0.48
26000.	72.	0.00333	-5.13	-5.41	-3.70	-1.42	0.00
27000.	62.	0.00285	-4.04	-4.71	-2.02	-1.01	0.67
28000.	49.	0.00249	-1.19	-1.59	-1.59	0.00	1.19

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACSC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (10)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

OCTOBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	155.	3.06	3.96	5.51	5.84	0.12970	5.84
1000.	154.	1.59	2.56	3.62	4.50	0.11850	4.50
2000.	154.	0.78	1.85	3.41	3.80	0.10660	3.80
3000.	154.	0.22	1.08	2.91	3.67	0.09610	3.67
4000.	154.	-0.12	0.60	2.51	3.83	0.08670	3.83
5000.	154.	0.00	0.53	2.40	3.20	0.07750	3.20
6000.	154.	0.30	0.74	2.08	2.97	0.06930	2.97
7000.	154.	0.75	1.16	2.16	3.33	0.06215	3.33
8000.	154.	1.21	1.58	2.24	2.61	0.05505	2.61
9000.	154.	2.00	2.42	3.05	3.57	0.04930	3.57
10000.	154.	2.49	2.85	3.56	3.80	0.04375	3.80
11000.	154.	2.82	3.23	4.03	4.44	0.03885	4.44
12000.	154.	5.19	6.45	7.55	8.02	0.03435	8.02
13000.	153.	4.41	6.25	9.74	10.85	0.03015	10.85
14000.	153.	4.30	5.81	9.03	10.97	0.02580	10.97
15000.	153.	3.77	4.77	7.29	10.05	0.02150	10.05
16000.	153.	3.53	4.41	6.76	7.94	0.01835	7.94
17000.	148.	2.90	3.86	5.93	6.76	0.01548	6.76
18000.	148.	2.26	2.90	4.84	5.81	0.01312	5.81
19000.	148.	1.89	2.83	4.15	5.09	0.01114	5.09
20000.	148.	1.32	2.20	3.96	4.41	0.00946	4.41
21000.	107.	1.55	2.33	3.88	4.39	0.00808	4.39
22000.	105.	0.91	1.81	3.02	3.63	0.00686	3.63
23000.	100.	1.06	1.41	2.47	3.53	0.00586	3.53
24000.	93.	0.00	0.82	1.65	2.47	0.00498	2.47
25000.	85.	0.00	0.72	1.93	2.17	0.00423	2.17
26000.	72.	0.57	1.14	2.28	2.85	0.00361	2.85
27000.	62.	1.35	2.02	3.03	3.37	0.00307	3.37
28000.	49.	1.98	2.78	3.57	3.97	0.00262	3.97

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (11)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria | **Period of Observation: March 1954 - February 1959**

NOVEMBER | **Percent Deviation from ARDC Model Atmosphere, 1959**

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	150.	0.12090	-1.34	-1.35	-0.12	2.08	4.21
1000.	150.	0.11130	-1.85	-2.03	-1.68	0.79	3.09
2000.	150.	0.09930	-3.31	-3.41	-2.14	-0.86	1.07
3000.	150.	0.09040	-2.48	-2.59	-2.16	-0.86	0.43
4000.	150.	0.08080	-3.27	-3.35	-1.92	-0.96	0.12
5000.	150.	0.07280	-3.06	-3.20	-1.73	-0.93	0.27
6000.	150.	0.06580	-2.27	-2.38	-1.49	-0.45	0.45
7000.	150.	0.05930	-1.41	-1.50	-1.00	-0.17	0.83
8000.	150.	0.05280	-1.58	-1.68	-0.65	0.28	1.12
9000.	150.	0.04605	-3.26	-3.36	-2.10	0.74	1.68
10000.	150.	0.03935	-6.64	-6.76	-5.34	-0.59	1.54
11000.	150.	0.03365	-9.54	-9.68	-7.12	-3.36	0.40
12000.	150.	0.02895	-8.96	-9.12	-6.76	-3.62	0.16
13000.	150.	0.02485	-8.64	-8.82	-5.88	-3.68	-0.74
14000.	150.	0.02125	-8.60	-8.82	-5.81	-3.23	-0.86
15000.	150.	0.01815	-8.79	-9.05	-5.28	-3.52	-0.75
16000.	146.	0.01570	-7.65	-7.94	-6.47	-2.94	-0.59
17000.	137.	0.01350	-6.90	-7.03	-4.83	-2.76	-0.69
18000.	137.	0.01158	-6.61	-6.77	-4.84	-2.74	-0.81
19000.	136.	0.00990	-6.60	-6.79	-4.72	-3.02	-0.94
20000.	135.	0.00844	-7.05	-7.27	-4.63	-3.52	-1.10
21000.	95.	0.00714	-7.75	-8.01	-4.91	-2.33	-0.78
22000.	91.	0.00628	-5.14	-5.44	-3.93	-2.72	-0.91
23000.	85.	0.00538	-4.95	-5.30	-4.59	-2.83	-1.41
24000.	80.	0.00456	-6.17	-6.58	-6.17	-3.70	-1.65
25000.	65.	0.00386	-6.76	-7.00	-5.56	-4.35	-1.69
26000.	57.	0.00327	-6.84	-7.12	-6.55	-3.42	-1.14
27000.	50.	0.00277	-6.73	-7.07	-6.40	-3.37	-1.01
28000.	35.	0.00238	-5.56	-5.95	-5.56	-3.57	0.00

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (11)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

NOVEMBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	150.	5.10	6.09	8.21	10.25	0.12510	10.25
1000.	150.	4.14	5.20	7.50	7.85	0.12230	7.85
2000.	150.	2.24	3.60	5.74	7.40	0.11030	7.40
3000.	150.	1.19	2.16	4.85	5.29	0.09760	5.29
4000.	150.	0.60	1.68	3.95	4.19	0.08700	4.19
5000.	150.	0.80	1.33	2.80	4.39	0.07840	4.39
6000.	150.	0.89	1.49	2.53	3.57	0.06970	3.57
7000.	150.	1.33	1.75	2.74	3.33	0.06215	3.33
8000.	150.	1.49	1.86	2.89	3.45	0.05550	3.45
9000.	150.	2.00	2.42	3.47	4.31	0.04965	4.31
10000.	150.	1.78	2.61	3.80	5.46	0.04445	5.46
11000.	150.	1.34	2.28	3.76	3.90	0.03865	3.90
12000.	150.	2.04	4.09	5.97	7.39	0.03415	7.39
13000.	150.	0.55	3.31	5.51	6.25	0.02890	6.25
14000.	150.	0.43	2.15	4.52	5.81	0.02460	5.81
15000.	150.	0.25	1.51	3.77	5.53	0.02100	5.53
16000.	146.	0.29	1.47	3.24	6.47	0.01810	6.47
17000.	137.	0.28	1.38	2.48	4.41	0.01514	4.41
18000.	137.	0.00	0.97	2.26	3.55	0.01264	3.55
19000.	136.	0.00	0.75	1.70	3.21	0.01094	3.21
20000.	135.	-0.22	0.44	1.32	2.42	0.00930	2.42
21000.	95.	0.00	0.52	1.81	2.07	0.00790	2.07
22000.	91.	-0.30	0.30	1.21	1.81	0.00674	1.81
23000.	85.	-0.71	-0.35	1.06	1.06	0.00572	1.06
24000.	80.	-1.23	-0.82	0.00	0.82	0.00490	0.82
25000.	65.	-0.97	-0.48	0.24	0.97	0.00418	0.97
26000.	57.	-0.57	0.28	0.85	1.71	0.00357	1.71
27000.	50.	0.34	1.01	1.68	1.68	0.00302	1.68
28000.	35.	1.19	1.59	2.38	2.38	0.00258	2.38

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (12)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

DECEMBER

Percent Deviation from ARDC Model Atmosphere, 1959

CUMULATIVE PERCENTAGE FREQUENCY

ALTITUDE METERS	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	.135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	155.	0.11990	-2.15	-2.16	-0.03	2.01	4.61
1000.	155.	0.11010	-2.91	-3.00	-1.59	0.71	3.17
2000.	155.	0.09900	-3.60	-3.70	-2.73	0.00	1.66
3000.	155.	0.08930	-3.67	-3.78	-2.70	-0.22	1.19
4000.	155.	0.08090	-3.11	-3.23	-2.51	-0.46	0.84
5000.	155.	0.07250	-3.46	-3.60	-2.53	-0.53	0.80
6000.	155.	0.06520	-3.12	-3.27	-2.08	-0.45	0.74
7000.	155.	0.05770	-4.07	-4.16	-1.33	-0.33	0.91
8000.	155.	0.05150	-4.01	-4.10	-1.86	-0.37	0.93
9000.	155.	0.04445	-6.62	-6.72	-3.36	-0.64	1.05
10000.	155.	0.03825	-9.25	-9.37	-6.05	-3.20	-0.12
11000.	155.	0.03305	-11.16	-11.29	-8.87	-6.45	-2.55
12000.	155.	0.02875	-9.59	-9.75	-6.28	-6.13	-2.67
13000.	155.	0.02450	-9.93	-10.11	-9.19	-5.88	-3.31
14000.	154.	0.02095	-9.69	-10.11	-8.60	-5.81	-3.01
15000.	154.	0.01800	-9.55	-9.80	-8.29	-5.78	-3.52
16000.	139.	0.01580	-7.06	-7.35	-6.47	-5.00	-3.24
17000.	128.	0.01302	-6.76	-6.90	-6.34	-4.55	-2.62
18000.	125.	0.01148	-7.42	-7.58	-6.77	-4.68	-2.58
19000.	125.	0.00974	-8.11	-8.30	-6.04	-4.72	-2.45
20000.	123.	0.00834	-8.15	-8.37	-7.93	-5.07	-2.42
21000.	100.	0.00708	-8.53	-8.79	-7.24	-4.91	-2.33
22000.	92.	0.00606	-8.46	-8.76	-6.95	-4.53	-2.42
23000.	83.	0.00526	-7.07	-7.42	-7.07	-4.59	-2.47
24000.	82.	0.00448	-7.82	-8.23	-7.82	-5.76	-2.88
25000.	77.	0.00377	-8.94	-9.18	-8.94	-5.31	-2.90
26000.	61.	0.00315	-10.26	-10.54	-8.83	-5.13	-1.99
27000.	48.	0.00268	-9.76	-10.10	-9.43	-5.05	-1.68
28000.	33.	0.00237	-5.95	-6.35	-5.95	-3.97	-1.19

Note: When less than 30 observations were available, frequency distribution data were excluded.

ACMC (ARMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (12)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria

Period of Observation: March 1954 - February 1959

[redacted]

Percent Deviation from ARDC Model Atmosphere, 1959

ALTITUDE METERS	NO. OBS.	CUMULATIVE PERCENTAGE FREQUENCY 68.0 PERCENT	94.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	155.	5.59	6.66	8.21	9.60	0.13430	9.60
1000.	155.	4.14	5.38	6.79	8.11	0.12260	8.11
2000.	155.	2.63	3.80	5.45	7.89	0.11080	7.89
3000.	155.	1.73	2.70	4.53	5.18	0.09950	5.18
4000.	155.	1.32	2.04	3.59	4.79	0.08750	4.79
5000.	155.	1.20	1.86	3.06	3.60	0.07780	3.60
6000.	155.	1.19	1.78	2.53	4.01	0.07000	4.01
7000.	155.	1.50	2.00	2.58	2.83	0.06185	2.83
8000.	155.	1.58	1.96	2.61	2.80	0.05515	2.80
9000.	155.	1.68	2.31	3.15	3.57	0.04930	3.57
10000.	155.	0.95	1.90	2.85	3.44	0.04360	3.44
11000.	155.	0.00	1.34	2.69	3.36	0.03845	3.36
12000.	155.	-0.47	2.99	5.19	5.97	0.03370	5.97
13000.	155.	-1.84	0.92	4.41	5.88	0.02880	5.88
14000.	154.	-1.72	-0.22	3.01	4.52	0.02430	4.52
15000.	154.	-1.76	-0.75	2.51	4.27	0.02075	4.27
16000.	139.	-1.76	-0.29	2.94	4.12	0.01770	4.12
17000.	128.	-1.52	-0.28	2.48	5.10	0.01524	5.10
18000.	125.	-1.77	-0.65	1.13	5.65	0.01310	5.65
19000.	125.	-1.70	-0.94	0.94	1.32	0.01074	1.32
20000.	123.	-1.76	-0.88	0.66	1.54	0.00922	1.54
21000.	100.	-1.81	-1.03	1.03	1.55	0.00786	1.55
22000.	92.	-1.51	-0.91	0.60	2.72	0.00680	2.72
23000.	83.	-1.77	-1.06	1.06	3.18	0.00584	3.18
24000.	82.	-2.06	-1.65	0.41	2.47	0.00498	2.47
25000.	77.	-1.93	-0.97	0.97	2.17	0.00423	2.17
26000.	61.	-1.42	-0.28	0.85	2.56	0.00360	2.56
27000.	48.	-0.34	0.34	2.02	3.37	0.00307	3.37
28000.	33.	0.40	0.79	3.17	3.57	0.00261	3.57

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFMA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (13)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

ANNUAL — **Percent Deviation from ARDC Model Atmosphere, 1959**

ALTITUDE METERS	NO. OBS.	MINIMUM DENSITY	RELATIVE DEVIATION	CUMULATIVE PERCENTAGE FREQUENCY .135 PERCENT	2.28 PERCENT	15.9 PERCENT	50.0 PERCENT
5.	1826.	0.11600	-5.34	-4.45	-2.64	-0.94	2.16
1000.	1825.	0.10610	-6.44	-5.64	-4.06	-2.03	0.79
2000.	1825.	0.09600	-6.52	-5.26	-3.51	-1.95	0.29
3000.	1825.	0.08820	-4.85	-4.31	-2.91	-1.62	-0.00
4000.	1825.	0.07970	-4.55	-3.47	-2.40	-1.56	-0.24
5000.	1825.	0.07190	-4.26	-3.60	-2.40	-1.33	-0.27
6000.	1825.	0.06480	-3.71	-3.12	-1.93	-0.69	0.15
7000.	1825.	0.05770	-4.07	-2.91	-1.41	-0.50	0.50
8000.	1825.	0.05095	-5.03	-4.47	-1.86	-0.19	0.84
9000.	1824.	0.04335	-8.93	-7.56	-4.10	-0.11	1.47
10000.	1824.	0.03720	-11.74	-10.32	-7.24	-2.02	1.42
11000.	1824.	0.03190	-14.25	-13.44	-10.08	-5.38	0.27
12000.	1824.	0.02735	-13.99	-13.21	-9.75	-5.50	-0.63
13000.	1822.	0.02380	-12.50	-12.50	-9.38	-5.51	-1.10
14000.	1821.	0.02055	-11.61	-11.40	-8.82	-5.16	-0.86
15000.	1820.	0.01775	-10.80	-10.80	-8.54	-5.03	-0.75
16000.	1755.	0.01525	-10.29	-10.29	-7.94	-4.71	0.00
17000.	1672.	0.01312	-9.52	-9.24	-7.17	-4.14	0.28
18000.	1658.	0.01124	-9.35	-8.71	-7.10	-3.87	0.32
19000.	1651.	0.00960	-9.43	-9.06	-6.98	-3.96	0.19
20000.	1625.	0.00820	-9.69	-8.81	-7.27	-4.19	-0.00
21000.	1314.	0.00690	-10.85	-10.08	-7.49	-3.62	0.78
22000.	1236.	0.00584	-11.78	-11.18	-7.85	-3.63	0.30
23000.	1153.	0.00478	-15.55	-14.49	-8.13	-3.53	0.71
24000.	1072.	0.00404	-16.87	-16.87	-8.64	-3.70	0.00
25000.	954.	0.00342	-17.39	-16.43	-8.21	-3.62	0.48
26000.	828.	0.00290	-17.38	-17.38	-7.98	-2.85	1.42
27000.	701.	0.00247	-16.64	-16.84	-6.40	-1.68	2.69
28000.	537.	0.00211	-16.27	-16.27	-5.95	-0.79	3.57
29000.	330.	0.00184	-14.02	-14.49	-4.67	0.93	5.61
30000.	170.	0.00168	-8.20	-8.74	-4.92	1.64	6.56
31000.	87.	0.00152	-1.94	-2.58	0.00	3.23	7.74

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AMRA) Form 600-2, 27 Sep 61 (One-Time)

Table VI (13)

FREQUENCY DISTRIBUTIONS OF AIR DENSITY

VIENNA, Austria — **Period of Observation: March 1954 - February 1959**

ANNUAL — **Percent Deviation from ARDC Model Atmosphere, 1959**

ALTITUDE METERS	NO. OBS.	CUMULATIVE PERCENTAGE FREQUENCY 68.0 PERCENT	84.1 PERCENT	97.72 PERCENT	99.865 PERCENT	MAXIMUM DENSITY	RELATIVE DEVIATION
5.	1826.	3.96	5.59	9.42	12.70	0.14180	15.72
1000.	1825.	2.47	4.32	7.32	11.02	0.12860	13.40
2000.	1825.	1.56	3.02	5.65	8.76	0.11230	9.35
3000.	1825.	0.97	2.16	4.75	6.58	0.09990	7.77
4000.	1825.	0.60	1.68	3.83	5.99	0.08940	7.07
5000.	1825.	0.67	1.60	3.33	4.93	0.07900	5.19
6000.	1825.	0.74	1.49	2.82	4.46	0.07080	5.20
7000.	1825.	1.08	1.66	2.74	3.99	0.06285	4.49
8000.	1825.	1.21	1.68	2.70	3.91	0.05615	4.66
9000.	1824.	1.89	2.31	3.26	4.31	0.04995	4.94
10000.	1824.	2.02	2.61	3.44	4.39	0.04445	5.46
11000.	1824.	1.75	2.82	3.76	4.44	0.03895	4.70
12000.	1824.	2.52	5.03	7.23	8.02	0.03450	8.49
13000.	1822.	1.29	4.23	8.09	10.85	0.03035	11.58
14000.	1821.	1.29	3.66	7.74	10.11	0.02580	10.97
15000.	1820.	1.26	3.52	7.04	10.05	0.02205	10.80
16000.	1755.	1.76	3.82	6.76	10.00	0.01880	10.59
17000.	1672.	2.21	4.00	6.76	9.93	0.01610	11.03
18000.	1658.	2.26	3.87	6.29	8.71	0.01358	9.52
19000.	1651.	2.26	3.96	5.85	8.87	0.01155	9.25
20000.	1625.	1.98	3.30	5.07	7.71	0.00984	8.37
21000.	1314.	2.58	3.88	5.43	7.75	0.00836	8.01
22000.	1236.	2.42	3.63	5.44	7.25	0.00712	7.55
23000.	1153.	2.47	3.53	5.30	7.07	0.00608	7.42
24000.	1072.	2.06	3.29	4.94	6.58	0.00518	6.58
25000.	954.	2.42	3.62	5.31	7.00	0.00444	7.25
26000.	828.	3.42	4.56	6.55	7.69	0.00379	7.98
27000.	701.	4.71	6.06	7.74	9.09	0.00325	9.43
28000.	537.	5.56	6.75	8.33	10.71	0.00280	11.11
29000.	330.	7.01	7.94	10.28	12.15	0.00240	12.15
30000.	170.	7.10	8.20	9.84	10.38	0.00202	10.38
31000.	87.	8.39	9.68	10.97	11.61	0.00173	11.61

Note: When less than 30 observations were available, frequency distribution data were excluded.

ARDC (AFRA) Form 600-2, 27 Sep 61 (One-Time)

APPROVAL PAGE

GERHARD H. R. SIGSIG
Director, Research Laboratory
Research and Development Operations

INTERNAL DISTRIBUTION

ORDXM-R	Col. Burkett
	Mr. McDaniel
-RF	Director
-RC	
-RG	Director
-RGAD	H. G. Hamby
	J. W. Haughey
-RGE	
-RGN	
-RGNC	W. A. Griffith
-RGNF	G. T. Rice
-RGP	
-RI	Director (2)
-RIP	
-RIS	
-RP	Director
-RR	Mr. Hallowes
	Mr. Reisig (2)
	Dr. Lehnigk
	Dr. Steverding
-RRA	Dr. Essenwanger (20)
	Mr. H. P. Dudel
	Mr. A. P. Alsobrook
	Mrs. Billions
	Mr. Bagley
	Mr. H. S. Greene
-RRP	Mr. Emanuel
	Mr. Goetz
-RRE	Dr. Lackner
-RS	Director
-RT	Mr. Collins
-RBL	Technical Library (5) Bldg. 4488
-D	Mr. C. Davis
-RAP	

The Bendix Corporation
Bendix Systems Division
3300 Plymouth Road
Ann Arbor, Michigan
Attn: Library

ASTRO Research Corporation
734 Arbolado Road
Santa Barbara, California
Attn: Dr. Hans Schuerch

Bell Telephone Laboratories
Whippany, New Jersey
Attn: Mr. W. O. Arnold (2)

Chief of Naval Operations
Naval Weather Service
Washington 25, D. C.
Attn: Technical Requirements Section

Chrysler Corporation Missile Division
Dept. 713
16 Mile and Van Dyke
Warren, Michigan
Attn: Mr. Tabish

Commander Aberdeen Proving Ground
Aberdeen, Maryland
Attn: Ballistic Research Laboratories
Technical Information Section

Commander
Air Force Ballistic Missile Division
Inglewood, California
Attn: Technical Library

Commander
Air Force Cambridge Research Center
Geophysics Research Directorate
L. G. Hanscom Field
Bedford, Massachusetts
Attn: CRZW Research and Development (3)
Technical Library

Commander
Army Electronics Proving Ground
Fort Huachuca, Arizona
Attn: Technical Library

Commander
Army Signal Research and Development Laboratory
Fort Monmouth, New Jersey
Attn: SIGRA-SL-SM
SIGRA-SL-SMA
Technical Documents Center

Commander
Army White Sands Signal Agency
White Sands Proving Ground, New Mexico
Attn: Missile Geophysics Division

Commander
Diamond Ordnance Fuze Laboratory
Washington 25, D. C.
Attn: Mr. C. P. Mook
Technical Library

Commander
Naval Proving Ground
Dahlgreen, Virginia
Attn: Code KBF-1

Commander
Naval Weapons Laboratory
Dahlgreen, Virginia
Attn: Technical Library

Commander
Navy Weather Research Facility
Naval Air Station
Norfolk 11, Virginia (2)

Commander
Pacific Missile Range
Point Mugu, California
Attn: Mr. N. R. Williams
Code 5430-1

Commander
Picatinny Arsenal
Dover, New Jersey
Attn: Mr. G. I. Jackman
Mr. Sternbach
Technical Library (3)

Douglas Aircraft Corp.
3000 Ocean Park Blvd.
Santa Monica, California
Attn: Mr. R. Pedraglia (2)

Florida State University
Tallahassee, Florida
Attn: Department of Meteorology

General Mills Incorporated
Minneapolis, Minnesota
Attn: Dr. Belmont

Climatic Center, USAF
225 D Street, SE
Washington 25, D. C.

Headquarters
Air Weather Service
Scott AFB, Illinois
Attn: Directorate of Climatology
Directorate of Scientific Services

Headquarters
Office of Naval Research
Washington 25, D. C.
Attn: Code 405
Naval Analysis Group

Headquarters
Office of the Chief of Ordnance
Washington 25, D. C.
Attn: Chief Scientist OCO

Headquarters
Office of the Chief of Research and Development
U. S. Army
Pentagon
Washington 25, D. C.
Attn: Dr. Lemons
Mrs. F. Whedon

Headquarters
Quartermaster Research and Engineering Command
Quartermaster Research and Engineering Center
Earth Science Division
Natick, Massachusetts
Attn: Dr. Brierly

Headquarters
Office of the Chief Signal Officer
Pentagon
Washington 25, D. C.
Attn: Mr. Copeland

Headquarters
Second Weather Wing
APO 633
New York, N. Y.
Attn: Maj. McPherson

Headquarters
Third Weather Wing
Offutt AFB, Nebraska
Attn: Chief, Scientific Services (2)

Lockheed Aircraft Corporation
Missile Systems Division
Sunnyvale, California
Attn: Mr. A. Ali
Mr. Ledolph Baer
Thru: ABMA Field Office
c/o Buwepsrep

Massachusetts Institute of Technology
Cambridge, Massachusetts
Attn: Department of Meteorology

Meteorological and Geoastrophysical Abstracts
Editorial Office
P. O. Box 1736
Washington 13, D. C.

National Aeronautics and Space Administration
George C. Marshall Space Flight Center
Huntsville, Alabama
Attn: Aeroballistics Division
Director (3)
Mr. Vaughan (2)
Astrionics Division
Mr. Hosenthien
Propulsion and Vehicle Engineering Division
Dr. Kuettner

National Aeronautics and Space Administration
Langley Field, Virginia
Attn: Technical Library

National Aeronautics and Space Administration
Space Science Assistant Director
Washington 25, D. C.
Attn: Dr. H. E. Newell, Jr.

National Bureau of Standards
Boulder Laboratories
Boulder, Colorado
Attn: Library

New Mexico State University
University Park, New Mexico
Attn: Department of Meteorology

New York University
New York City, New York
Attn: Department of Meteorology

Pennsylvania State University
University Park, Pennsylvania
Attn: Department of Meteorology

Sandia Corporation
Albuquerque, New Mexico
Attn: Mr. B. N. Charles, Div. 5121
Mr. Palmer, Div. 5243
Mr. L. Smith, Div. 5111
Technical Library

The Martin Company
Baltimore 3, Maryland
Attn: Engineering Library
Mail JI-398

The Martin Company
Orlando, Florida
Attn: Mr. L. R. Merritt (Code 163)
Technical Library (3)

University of California
Institute of Geophysics
Los Angeles, California
Attn: Department of Meteorology

University of Chicago
Chicago, Illinois
Attn: Department of Meteorology

University of Washington
Seattle, Washington
Attn: Department of Meteorology

University of Wisconsin
Madison, Wisconsin
Attn: Department of Meteorology

U. S. Weather Bureau
National Weather Records Center
Asheville, North Carolina
Attn: Director
Technical Library

U. S. Weather Bureau
Washington 25, D. C.
Attn: Extended Forecast Section (2)
Office of Climatology (2)
Office of Research (2)
Technical Library (2)

GMTI Distribution List No. 23, Part A

AD_____ACCESSION NO._____

U.S. Army Ordnance Missile Command, Research and Development Operations, Research Laboratory, Redstone Arsenal, Ala.

AOMC CLIMATOLOGICAL RINGBOOK, PART XIX, EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE, VIENNA, AUSTRIA

AOMC RR-TR-61-23, 2 Nov 61, 129pp, Uncl. Report

This publication presents climatological parameters of barometric pressure, air temperature and air density in relation to the ARDC Model Atmosphere 1959 at 1 km altitude intervals for the location Vienna, Austria. The frequency distributions have been established for the twelve monthly and the annual reference periods with values of cumulative percentage frequency corresponding to the mean and plus and minus one, two and three sigma levels of normal distribution. The statistical information is based on the observational period March 1954 - February 1959.

UNCLASSIFIED

1. Atmosphere--Pressure
2. Atmosphere--Temperature
3. Atmosphere--Density
4. Climate--Austria

DISTRIBUTION: Qualified requestors may obtain copies of this report from ASTIA.

AD_____ACCESSION NO._____

U.S. Army Ordnance Missile Command, Research and Development Operations, Research Laboratory, Redstone Arsenal, Ala.

AOMC CLIMATOLOGICAL RINGBOOK, PART XIX, EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE, VIENNA, AUSTRIA

AOMC RR-TR-61-23, 2 Nov 61, 129pp, Uncl. Report

This publication presents climatological parameters of barometric pressure, air temperature and air density in relation to the ARDC Model Atmosphere 1959 at 1 km altitude intervals for the location Vienna, Austria. The frequency distributions have been established for the twelve monthly and the annual reference periods with values of cumulative percentage frequency corresponding to the mean and plus and minus one, two and three sigma levels of normal distribution. The statistical information is based on the observational period March 1954 - February 1959.

UNCLASSIFIED

1. Atmosphere--Pressure
2. Atmosphere--Temperature
3. Atmosphere--Density
4. Climate--Austria

DISTRIBUTION: Qualified requestors may obtain copies of this report from ASTIA.

AD_____ACCESSION NO._____

U.S. Army Ordnance Missile Command, Research and Development Operations, Research Laboratory, Redstone Arsenal, Ala.

AOMC CLIMATOLOGICAL RINGBOOK, PART XIX, EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE, VIENNA, AUSTRIA

AOMC-RR-TR-61-23, 2 Nov 61, 129pp, Uncl. Report

This publication presents climatological parameters of barometric pressure, air temperature and air density in relation to the ARDC Model Atmosphere 1959 at 1 km altitude intervals for the location Vienna, Austria. The frequency distributions have been established for the twelve monthly and the annual reference periods with vlaues of cumulative percentage frequency corresponding to the mean and plus and minus one, two and three sigma levels of normal distribution. The statistical information is based on the observational period March 1954 - February 1959.

UNCLASSIFIED

1. Atmosphere--Pressure
2. Atmosphere--Temperature
3. Atmosphere--Density
4. Climate--Austria

DISTRIBUTION: Qualified requestors may obtain copies of this report from ASTIA.

AD_____ACCESSION NO._____

U.S. Army Ordnance Missile Command, Research and Development Operations, Research Laboratory, Redstone Arsenal, Ala.

AOMC CLIMATOLOGICAL RINGBOOK, PART XIX, EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE, VIENNA, AUSTRIA

AOMC-RR-TR-61-23, 2 Nov 61, 129pp, Uncl. Report

This publication presents climatological parameters of barometric pressure, air temperature and air density in relation to the ARDC Model Atmosphere 1959 at 1 km altitude intervals for the location Vienna, Austria. The frequency distributions have been established for the twelve monthly and the annual reference periods with values of cumulative percentage frequency corresponding to the mean and plus and minus one, two and three sigma levels of normal distribution. The statistical information is based on the observational period March 1954 - February 1959.

UNCLASSIFIED

1. Atmosphere--Pressure
2. Atmosphere--Temperature
3. Atmosphere--Density
4. Climate--Austria

DISTRIBUTION: Qualified requestors may obtain copies of this report from ASTIA.

AD_____ACCESSION NO._____

U.S. Army Ordnance Missile Command, Research and Development Operations, Research Laboratory, Redstone Arsenal, Ala.

AOMC CLIMATOLOGICAL RINGBOOK, PART XIX, EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE, VIENNA, AUSTRIA

AOMC RR-TR-61-23, 2 Nov 61, 129pp, Uncl. Report

This publication presents climatological parameters of barometric pressure, air temperature and air density in relation to the ARDC Model Atmosphere 1959 at 1 km altitude intervals for the location Vienna, Austria. The frequency distributions have been established for the twelve monthly and the annual reference periods with values of cumulative percentage frequency corresponding to the mean and plus and minus one, two and three sigma levels of normal distribution. The statistical information is based on the observational period March 1954 - February 1959.

UNCLASSIFIED

1. Atmosphere--Pressure
2. Atmosphere--Temperature
3. Atmosphere--Density
4. Climate--Austria

DISTRIBUTION: Qualified requestors may obtain copies of this report from ASTIA.

AD_____ACCESSION NO._____

U.S. Army Ordnance Missile Command, Research and Development Operations, Research Laboratory, Redstone Arsenal, Ala.

AOMC CLIMATOLOGICAL RINGBOOK, PART XIX, EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE, VIENNA, AUSTRIA

AOMC RR-TR-61-23, 2 Nov 61, 129pp, Uncl. Report

This publication presents climatological parameters of barometric pressure, air temperature and air density in relation to the ARDC Model Atmosphere 1959 at 1 km altitude intervals for the location Vienna, Austria. The frequency distributions have been established for the twelve monthly and the annual reference periods with values of cumulative percentage frequency corresponding to the mean and plus and minus one, two and three sigma levels of normal distribution. The statistical information is based on the observational period March 1954 - February 1959.

UNCLASSIFIED

1. Atmosphere--Pressure
2. Atmosphere--Temperature
3. Atmosphere--Density
4. Climate--Austria

DISTRIBUTION: Qualified requestors may obtain copies of this report from ASTIA.

AD_____ACCESSION NO._____

U.S. Army Ordnance Missile Command, Research and Development Operations, Research Laboratory, Redstone Arsenal, Ala.

AOMC CLIMATOLOGICAL RINGBOOK, PART XIX, EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE, VIENNA, AUSTRIA

AOMC-RR-TR-61-23, 2 Nov 61, 129pp, Uncl. Report

This publication presents climatological parameters of barometric pressure, air temperature and air density in relation to the ARDC Model Atmosphere 1959 at 1 km altitude intervals for the location Vienna, Austria. The frequency distributions have been established for the twelve monthly and the annual reference periods with values of cumulative percentage frequency corresponding to the mean and plus and minus one, two and three sigma levels of normal distribution. The statistical information is based on the observational period March 1954 - February 1959.

UNCLASSIFIED

1. Atmosphere--Pressure
2. Atmosphere--Temperature
3. Atmosphere--Density
4. Climate--Austria

DISTRIBUTION: Qualified requestors may obtain copies of this report from ASTIA.

AD_____ACCESSION NO._____

U.S. Army Ordnance Missile Command, Research and Development Operations, Research Laboratory, Redstone Arsenal, Ala.

AOMC CLIMATOLOGICAL RINGBOOK, PART XIX, EMPIRICAL FREQUENCY DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND AIR DENSITY AT LEVELS OF CONSTANT ALTITUDE, VIENNA, AUSTRIA

AOMC-RR-TR-61-23, 2 Nov 61, 129pp, Uncl. Report

This publication presents climatological parameters of barometric pressure, air temperature and air density in relation to the ARDC Model Atmosphere 1959 at 1 km altitude intervals for the location Vienna, Austria. The frequency distributions have been established for the twelve monthly and the annual reference periods with values of cumulative percentage frequency corresponding to the mean and plus and minus one, two and three sigma levels of normal distribution. The statistical information is based on the observational period March 1954 - February 1959.

UNCLASSIFIED

1. Atmosphere--Pressure
2. Atmosphere--Temperature
3. Atmosphere--Density
4. Climate--Austria

DISTRIBUTION: Qualified requestors may obtain copies of this report from ASTIA.